Sauget Area 2 Sites Group

July 20, 2009

Ms. Leah Evison Remedial Project Manager U. S. Environmental Protection Agency, Region 5 77 W. Jackson Blvd. (SR-6J) Chicago, IL 60604-3590

Re: Principal Threat Wastes Technical Memorandum Sauget Area 2 Sauget, Illinois

Dear Leah:

Attached, please find the approved Principal Threat Wastes Technical Memorandum.

This document was approved on April 1st, 2009 with specific modifications. The attached includes those required modifications.

Please call us with any comments or questions on this report.

Sincerely,

Steve Smith

Co-Project Coordinator

cc: Sandra Bron – Illinois EPA, 2 copies Lisa Cundiff – CH2M Hill, 1 copy

Memorandum

Date: July 21, 2009

To: Steve Smith, Gary Uphoff – SA2SG Co-Project Managers

From: Bob Veenstra, URS

Subject: Principal Threat Wastes Technical Memorandum-Revised

1.0 SUMMARY

This technical memorandum summarizes existing data regarding the presence of non-aqueous phase liquid (NAPL) and buried drums at Sauget Area 2 (SA2) and provides an evaluation of whether the NAPL or buried drums containing liquid waste materials would constitute principal threat wastes.

USEPA requested that results of the Remedial Investigation submitted in 2004 (2004 RI), and the Supplemental Investigation (SI) conducted in 2005 and 2006 be integrated to facilitate an updated evaluation of principal threat wastes at SA2 Sites O, P, Q, R, and S (Sites).

Based on the information presented in this technical memorandum (Tech Memo), there is no evidence of large caches of drums containing liquid wastes or highly mobile source material at the SA2 Sites.

This evaluation is pertinent only to liquids and NAPL principal threat wastes. A separate technical memorandum will be prepared evaluating whether waste materials are present which may be considered a principal threat based on toxicity (the Remedial Investigation Report and the Disposal Area Waste Toxicity Technical Memorandum).

Minor quantities of principal threat wastes were observed in the following locations:

- AT-Q-35 in Site Q South: Two intact drums were found where potential NAPL leaked into the trench from one of the drums. Since the two drums were found in close proximity to each other, to be conservative, both were considered to contain liquid and be principal threat waste.
- The NAPL observed in Anomaly Trench AT-P-4 and LEACH-P-1.
- NAPL was observed at 8 locations in Site R and is considered a principal threat waste; however, these locations are within the GMCS barrier wall and already controlled within the GMCS barrier wall (Operable Unit # 2).
- The NAPL observed within Site Q North at Sonic-5 and LEACH-Q-1 is considered a principal threat waste; however, these locations are already controlled within the GMCS barrier wall (Operable Unit # 2).



2.0 SCOPE OF TECHNICAL MEMO

Principal Threat Wastes

USEPA has requested that results of the 2004 RI, and the SI conducted in 2005 and 2006 be integrated to facilitate an updated evaluation of principal threat wastes at Sites O, P, Q, R, and S (Sites). Principal threat wastes are defined in a 1991 USEPA fact sheet as follows:

Principal threat wastes are those source materials that are considered to be highly toxic or highly mobile that cannot be reliably contained or would present a significant threat to human health or the environment should exposure occur. They include liquids and other highly mobile materials (e.g., solvents) or materials having high concentrations of toxic compounds. No threshold level of toxicity/risk has been established to equate to principal threat. However, where toxicity and mobility of source material combined to pose a potential risk of 10^{-3} or greater, generally treatment alternatives should be evaluated.

The USEPA fact sheet presented several examples of principal threat wastes.

Wastes that generally will be considered to constitute principal threats include, but are not limited to:

- Liquids waste contained in drums, lagoons or tanks, free product (NAPLs) floating on or under groundwater (generally excluding groundwater) containing contaminants of concern.
- Mobile source material surface soil or subsurface soil containing high concentrations of contaminants of concern that are (or potentially are) mobile due to wind entrainment, volatilization (e.g., VOCs), surface runoff, or subsurface transport.
- Highly toxic source material buried drummed non-liquid wastes, buried tanks containing non-liquid wastes, or soils containing significant concentrations of highly toxic materials.

As requested by the SA2 Sites Group, URS has prepared this Tech Memo to summarize existing data regarding the presence of NAPL and buried drums at the SA2 Sites and provide an evaluation of whether or not NAPL, or the buried drums that were found to contain liquid wastes, constitute principal threat wastes. This evaluation is pertinent only to liquids and NAPL principal threat wastes. A separate technical memorandum will be prepared evaluating whether waste materials are present which may be considered a principal threat based on toxicity (the Remedial Investigation Report and the Disposal Area Waste Toxicity Technical Memorandum).



This memorandum includes the following:

- Summary of soil gas and magnetometer surveys;
- Summary of test trenching rationale, design, and field procedures;
- Inventory of number and condition of intact, buried drums found at the fill areas;
- Summary of the Phase 3 SI NAPL Investigation; and
- Evaluation of whether the NAPL or drums, that were found to contain liquid wastes, constitute principal threat wastes.

3.0 INVESTIGATION SUMMARIES

Remedial Investigation (2004)

As a part of the 2004 RI, fill area investigations were conducted in 2002 at SA2 Sites O, P, Q, R and S (Sites). The investigations included the following tasks: i) review of aerial photos, topographic maps, and topographic survey data to obtain information regarding fill area boundaries; ii) excavation of boundary trenches to confirm the horizontal limits of the fill areas; iii) a soil gas survey at and near each fill area; iv) waste sampling to characterize the fill materials; iv) a magnetometer survey at each fill area to identify magnetic anomalies potentially indicative of buried tanks or drums; and v) excavation of anomaly trenches at an interior location in each fill area to look for buried tanks or drums. Buried drum remnants and fragments were found in trenches at Sites P, Q, R, and S. Trench locations are shown on the Figure 1. The following is a summary of the magnetometer and soil gas surveys conducted during the 2004 RI.

Magnetometer Survey

Magnetometer surveys were conducted at four of the five SA2 Sites (P, Q, R, and S) to identify magnetic anomalies in the subsurface potentially associated with buried drums. No magnetometer survey was conducted at Site O since site closure records indicated that there were no drums present at this site. Magnetometer measurements were collected at the center points of a 50 by 50-foot grid superimposed on each of the disposal areas. The established survey lines were marked in the field using a pre-marked survey line to maintain straight and precise station locations. Profiles were completed along a straight line with an unobstructed line of sight, and each measurement location was marked with a surveyor's flag.



The geophysical survey of each site's magnetic field was completed utilizing a Ferex gradeometer magnetometer. Field procedures and operation of the instruments were done in accordance with the recommended manufacturer's field procedure and application manual.

The field magnetometer measured the strength of each site's magnetic field regardless of the orientation of the magnetic lines of force. During the performance of the geophysical survey, data were collected that resulted in contour maps depicting the distribution of magnetic field strength over each site. These maps were compared with the observed field conditions (including the location of known interfering objects such as vehicles, overhead power lines, and surface debris). By comparison, those magnetic anomalies, which could not be explained by observed site conditions, were presumed to be a result of buried subsurface material (e.g., drums, tanks, metal debris, etc.). The results of the magnetometer survey are presented on Figures 2a through 2d.

Soil Gas Survey

A soil gas survey was performed at each of the five SA2 Sites to assist in verifying the boundaries of the disposal areas. Soil gas samples were collected at the center points of a 200 by 200-foot grid, superimposed on each disposal area.

Direct-push technology was used to advance a retractable point holder to 5.5 feet below existing grade. The rods were then pulled back 6 inches to approximately 5 feet below existing grade to disengage the retractable point, thereby exposing the sampling mechanism. Polyethylene tubing (0.125-inch diameter) was then lowered into the rods. The upper end of the polyethylene tubing was connected to a 4-inch section of silicone tubing, which was then attached to a section of polyethylene tubing coming from an active vacuum system and a vacuum was placed on the tubing. A 60cc sample of soil gas was withdrawn from the silicone tubing using a 60cc disposable syringe with a stainless steel needle. The sample was then directly injected into the on-site gas chromatograph (GC). The GC provided a report of the total VOC concentrations.

Following sample collection, sample tubing was removed from the probe and disposed. Probing rods and sampling equipment were removed from the boring and the boring was filled with bentonite to just below existing grade. The bentonite was then hydrated with potable water and the surface was restored to its original condition.

If detectable concentrations of total VOCs were found in the soil gas samples from borings located along a site boundary, then additional borings were advanced off-site along a transect perpendicular to that site boundary. Borings were advanced every 100 feet along the transect until VOC concentrations



fell below the on-site laboratory reporting limits. If no VOCs were detected along a site boundary, no additional borings were advanced.

A total of 339 of the 348 originally proposed soil gas borings were advanced at the five sites. In addition, soil gas samples were collected at 15 step-out locations. The elimination of nine of the originally proposed soil gas sample locations, which could not be collected due to utility hazards, high water table, or unattainable access, was approved in the field by the USEPA's oversight contractor and was recorded on a Field Clarification Log. The results of soil gas survey are presented in Figures 3a through 3e.

The magnetic anomalies and soil gas concentration highs identified during the magnetometer and soil gas investigations conducted as part of the 2004 RI were used to focus the trenching investigation of the potential presence of buried drums or tanks.

Supplemental Investigation (2005)

Additional anomaly trenches were completed during the Phase 1 of the SI in 2005 to investigate the potential presence of buried drums or tanks based on the magnetic anomalies and soil gas concentration highs identified during the magnetometer and soil gas investigations conducted as part of the 2004 RI. The trench locations are summarized as follows:

- Four trenches were installed in Site P.
- Three trenches were installed in Site Q North.
- Eleven trenches were installed in Site Q Central.
- Four trenches were installed in Site Q South.

Soil and waste samples were collected from these anomaly trenches. Buried drum remnants and fragments were found in some of the trenches at Sites P and Q. Two intact drums were found in Site Q South.

SI NAPL Investigation (2005, 2006)

A NAPL Investigation was conducted during Phase 3 of the SI in 2006 to identify the nature and extent of both residual NAPL, which remains in the interstitial spaces of the soil, and pooled NAPL, which sits on the groundwater surface (light non-aqueous phase liquids (LNAPL)) or on the bedrock surface (dense non-aqueous phase liquid (DNAPL)). The NAPL Investigation was focused on two areas based on previous investigation results:



- LEACH-P-1
- Sonic-5

These locations were based on the data collected during the regional survey of the presence or absence of NAPL during the 2005 Phase 1 SI regional groundwater gauging event and on observations made during the course of the 2004 RI and the SI. Observed NAPL or Potential NAPL locations are presented on Figure 3.

4.0 TEST TRENCH RATIONALE, DESIGN, AND FIELD PROCEDURES

4.1 Boundary Trenches (2002)

Boundary trenches (BT) were used to confirm the boundaries of the waste disposal areas identified through the aerial photo and soil gas analyses. One trench was installed on each side of a waste disposal area. Thus, there were a total of four trenches in each of Sites O, P, R, and S. Because of the larger total area and varying types of disposal activities in Site Q, ten boundary trenches were used to assess the site. The trenches were positioned to assess the features identified on the aerial photos, and each location was selected in the field with the concurrence of USEPA's oversight contractor.

Each trench began outside of an assumed disposal area boundary and moved in towards the boundary until waste materials were encountered. If waste materials were encountered initially, the trenching activities proceeded out and away from the boundary until native soils were encountered. The trenching extended vertically to a maximum depth of 40-feet bgs (below ground surface) or to groundwater, whichever was encountered first, and horizontally to a maximum length of 40 feet. Some trenches were terminated before reaching 40-feet bgs due to cave-in conditions in the trench. In order to minimize the generation of investigation-derived wastes (IDW), no accommodations were made to dewater test trenches or manage groundwater during excavation activities.

All excavated soil and fill materials were returned to the trenches. Backfilling was conducted in a manner which minimized ponding of water over the trench. If necessary, a silt fence was installed around the perimeter of the trench to minimize runoff of surface soils during rain events. A test trench at one location was backfilled prior to the initiation of a test trench at another location. After completion of site investigation activities, the SA2 Sites were allowed to vegetate naturally.

A summary of trenching observations is presented in Tables 1a, 1b, and 1c.



4.2 Anomaly Trenches (2002, 2005)

During the 2004 RI, a total of 10 anomaly trenches were completed to investigate the potential presence of buried drums or tanks as identified during the magnetometer survey. One anomaly trench was installed in each of the Sites P, R, and S and seven anomaly trenches were installed in Site Q. No anomaly trenches were performed at Site O since site closure records indicated that there were no drums present. In an effort to reduce the potential risks to the community, on-site workers and the environment, each magnetic anomaly was evaluated against four criteria:

- A soil gas concentration high
- Drum or tank disposal locations identified by historical air photo interpretation
- An area of high groundwater concentrations (greater than 10,000 ppb) as identified by the February 1998 Ecology and Environment Data Report, Volume 2 Sauget Area 2 Data Tables/Maps
- Major magnetic anomalies reported in the May 1988 Ecology and Environment Report,
 Expanded Site Investigation, Dead Creek Project Sites at Cahokia/Sauget, Illinois

A total of 22 additional anomaly trenches (AT) were completed as part of Phase 1 of the SI in 2005 to investigate the potential presence of buried drums or tanks based on the magnetic anomalies and soil gas concentration highs identified during the magnetometer and soil gas investigations conducted as part of the 2004 RI.

- Four trenches were installed in Site P
- Three trenches were installed in Site Q North
- Eleven trenches were installed in Site Q Central
- Four trenches were installed in Site Q South

An anomaly trench was installed at the location of the most appropriate magnetic anomaly. Anomaly test trench locations were selected in the field with the concurrence of USEPA's oversight contractor.

Anomaly test trenches were advanced until evidence of buried drums or tanks was encountered or to a maximum length and depth of 40 feet. Infiltrating groundwater was not managed during excavation activities. If groundwater infiltration and/or poor soil stability resulted in the inability to complete a test trench to 40-feet below ground surface (bgs), the trenching was terminated at that location.



Step-Out Trenches

During trenching activities during Phase 1 of the SI in 2005, if drums or drum remnants were encountered during trenching, the length of the trench was extended beyond 40 feet in order to delineate the lateral extent of drums. If the trench extended at least 20 feet into a drum disposal and drums or drum remnants were still present, the lateral boundaries were delineated with boundary trenches at 50 foot increments transecting the perimeter of the disposal area on each side to avoid trenching directly through drums. It was assumed that the area between the step-out trenches and the original trenching area was continuously laden with buried drums. If drums or drum remnants were encountered during step-out trenching, one additional trench perpendicular to the original trench was installed to determine the lateral extent of the buried drums in that direction. The step-out trenches were test trenches excavated only to a length and depth necessary to confirm the presence of drums or similar density of drum remnants. Drums were not removed from the trench in order to delineate vertical extent; however, the locations of drums were documented using GPS and photographs.

Site P Step-Out Trenches

Five step-out trenches were excavated in Site P associated with AT-P-2 to delineate the extent of a significant density of drum remnants (no intact drums were found in Site P). Two step-out trenches were excavated to the north of AT-P-2 at distances of 50 (TT-P-2-N-1) and 100 (TT-P-2-N-2) feet. Metal drum remnants and fragments and industrial waste were present in TT-P-2-N-1; therefore, the step-out process was continued. No metal drums or drum fragments were observed in TT-P-2-N-2 and the density of industrial waste was not as significant as AT-P-2; therefore, further step-out trenches to the north were not excavated.

Three step-out trenches were excavated to the south of AT-P-2 at distances of 50 (TT-P-2-S-1), 100 (TT-P-2-S-2), and 150 (TT-P-2-S-3) feet. Metal drum remnants and fragments and industrial waste were present in all 3 step-out trenches; however, the step-out process was discontinued due to the location of anomaly trench AT-P-1, which was approximately 150 feet to the south of TT-P-2-S-3. Metal drum remnants were present in AT-P-1.

Step-out trenches were not excavated to the east and west of AT-P-2 due to access issues. The central ravine in Site P was less than 50 feet west of AT-P-2 and a high voltage power line prevented step-out trenches to the east of AT-P-2.



Site Q South Step-Out Trenches

Three step-out trenches were excavated in Site Q South associated with AT-Q 35 to delineate the extent of intact drums. Two step-out trenches were excavated to the west of AT-Q-35 at distances of 50 (TT-Q-35-W-1) and 100 (TT-Q-35-W-2) feet. No intact drums were present, but metal drum remnants and fragments and industrial waste were present in TT-Q-35-W-1; therefore, the step-out process was continued to delineate the extent of drum remnants and industrial waste in this area. No industrial waste or metal drums or drum fragments were observed in TT-Q-35-W-2; therefore, further step-out trenches to the west were not excavated. One step-out trench was excavated to the north of AT-Q-35 at a distance of 50 (TT-Q-35-N-1) feet. While ~4 metal drum remnants and fragments were observed in TT-Q-35-N-1, no intact metal drums were present and the density of drum remnants was not as significant as AT-Q-35; therefore, further step-out trenches to the north were not excavated.

Step-out trenches were not excavated to the east and south of AT-Q-35. The orientation of AT-Q-35 was east/west and the eastern edge of AT-Q-35 was located ~5 feet east of the toe of a sloped area assumed to be the edge of a disposal area. Intact drums and drum fragments were not present until the trench was excavated a lateral distance of ~10 feet west of the toe of the slope. In addition, the Corp of Engineers levee is less than ~100 feet east of AT-Q-35; therefore a step-out trench was not excavated to the east of AT-Q-35. A step-out trench was not excavated to the south due to the location of AT-Q-36.

Three step-out trenches were excavated in Site Q South associate with AT-Q-33 to delineate the extent of a significant density of drum remnants and industrial waste (no intact drums were found at AT-Q-33). One step-out trench was excavated to the east of AT-Q-33 at a distance of 50 (TT-Q-33-E-1) feet. While metal drum remnants and fragments were observed in TT-Q-33-E-1, no intact metal drums or industrial waste were present and the density of drum remnants was not as significant as AT-Q-33; therefore, further step-out trenches to the east were not excavated. One step-out trench was excavated to the south of AT-Q-33 at a distance of 50 (TT-Q-33-S-1) feet. Metal drum remnants or fragments and industrial waste were not observed in TT-Q-33-S-1; therefore, further step-out trenches to the south were not excavated. Due to the volume of drum remnants and industrial waste present in AT-Q-33 and the presence of drum remnants in TT-Q-33-E-1, the SA2 Sites Group agreed to excavate one additional trench (TT-Q-33-SE-1) bisecting the two step-out locations. No metal drums or drum fragments or industrial waste were observed in TT-Q-33-SE-1; therefore, further step-out trenches the step-out process was discontinued.



Step-out trenches were not excavated to the north of AT-Q-33 due the location of a buried pipeline and step-out trenches were not excavated to the west due to orientation of AT-Q-33 and the density and location of the industrial waste and drum remnants present. Industrial waste increased in thickness and density as the trench advanced to south.

5.0 DRUM INVENTORY

URS prepared an inventory of intact drums discovered during test trenching based on our review of field notes and photographs. For each trench location, the following provides the number of drums observed, descriptive information regarding drum condition and contents (where available), and URS's interpretation regarding whether or not the observed drums contained liquids constituting principal threat waste.

Site	Total No. of Intact Drums Observed	No. of Drums that Contained Liquids Constituting Principal Threat
Site O	None (only remnants or fragments)	0
Site P	None (only remnants or fragments)	0
Site Q North	None (only remnants or fragments)	0
Site Q Central	None (only remnants or fragments)	0
Site Q South	2 *	2 *
Site R	None (only remnants or fragments)	0
Site S	None (only remnants or fragments)	0

^{*} At Site Q South (AT-Q-35) two intact drums were discovered, one of which was leaking a liquid. Since the two drums were found in close proximity to each other, to be conservative both were considered to contain liquid and be principal threat waste. Four additional drums were partially uncovered; however, it was not determined if the four partially uncovered drums were intact or contained liquid.

See Section 7 for further discussion of the drum observations.

6.0 NAPL INVESTIGATION

A NAPL Investigation was conducted as part of Phase 3 of the SI to identify the nature and extent of both residual NAPL, which remains in the interstitial spaces of the soil, and pooled NAPL, which sits on the groundwater surface (light non-aqueous phase liquids (LNAPL)) or on the bedrock surface (DNAPL). The NAPL Investigation was focused on two areas based on previous investigation results:

- LEACH-P-1
- Sonic-5



Two NAPL samples (one LNAPL, one DNAPL) were collected for laboratory analysis of chemical properties from LEACH-P-1 and one DNAPL sample from Sonic-5 was collected for laboratory analysis of mobility properties. In addition, soil borings were advanced and monitoring wells were installed around Sonic-5. Soil borings and monitoring wells were not advanced or installed adjacent to LEACH-P-1 because other sampling locations have provided a maximum lateral extent of the NAPL observed.

6.1 NAPL Borings/Monitoring Well Installation

Three soil borings were advanced to bedrock using roto-sonic drilling technology at locations approximately 50 feet south of the barrier wall in a general east/west orientation adjacent to location Sonic-5. The presence of NAPL was evaluated based upon both visual evidence and the results of hydrophobic testing (Sudan IV vial test).

Field screening of soil samples utilizing the Sudan IV dye did not indicate the presence of NAPL in any of the three soil borings. Soil samples were collected for geotechnical laboratory analysis and six samples were collected for chemical analysis from each boring advanced during the NAPL investigation.

Monitoring wells were installed at each of the three soil borings advanced as part of the NAPL investigation. NAPL was not observed in any of the wells during the six-month gauging/observation period.

6.2 NAPL Observations

During the 2004 RI, the scope of work did not include collecting samples of NAPL. During the SI, the scope of work included collecting samples of NAPL or potential NAPL for visual and laboratory analysis. If field personnel could verify phase separation was present in any liquid observed or verify the presence of NAPL via oil water interface probe in monitoring wells, the fluid was classified as NAPL. However, if field personnel were unable to collect this data (i.e. liquid flowing into a trench from a drum remnant in the side-wall of a trench) and no other evidence was present, the liquid was classified as "potential NAPL," and as such, will not be included as principal threat wastes.

While wastes in these areas were not considered principal threat waste, the areas were discussed with EPA during development of the Feasibility Study alternatives with respect to whether a treatment alternative should be included to address those areas.



NAPL was not observed in Site O.

Site P

NAPL was observed in Site P at the following locations:

- Anomaly Trench AT-P-4 During trenching activities, NAPL (thick, brown liquid) was present and sampled from approximately 4 feet bgs and approximately 5 feet from the northern edge of the trench. According to STL-Savannah, there was phase separation in the sample. In addition, after backfilling the trench, potential NAPL seeped out of the top of the backfill material;
- LEACH-P-1 During sampling on monitoring well LEACH-P-1, both LNAPL and DNAPL were present. This sample was collected from ~ 24 feet bgs.

Based on these observations, the NAPL in Anomaly Trench AT-P-4 and in LEACH-P-1 are considered principal threat wastes.

Potential NAPL was observed in Site P at:

- Anomaly Trench AT-P-1 "Clear liquid" leaked from drum remnant located approximately 20 feet bgs;
 - o In addition, during trenching activities at AT-P-1, a white, cloudy liquid was encountered dripping from drum remnant located on the trenching spoils pile. After a sample was submitted for laboratory analysis, the lab reported there was no phase separation in this liquid.
- Test Trench TT-P-2-S-3 During trenching activities, a "liquid" was encountered leaking from a 55-gal. drum fragment at ~10 feet bgs.

Liquids which leaked into the trench from drum remnants in Anomaly Trench AT-P-1 and Test Trench TT-P-2-S-3 were classified as potential NAPL; however, they did not fit the definition of NAPL and therefore will not be included as principal threat wastes.

Site Q North

NAPL was observed in five locations within Site Q North at the following locations:

- SONIC-5 During soil boring advancement and subsequent gauging, greenish-yellow colored NAPL was observed at a depth of approximately 138 to 141 feet bgs;
- LEACH-Q-1 During the gauging event, all liquid present (~10 feet bgs) within the well at the time of gauging was NAPL;



- PZ-6D During piezometer installation, product sheen and odor were present from approximately 10 to 17 feet bgs, green staining and odor were present at approximately 27 feet;
- PZ-8U During piezometer installation, odor was present at approximately 7 feet, odor was present at approximately 12 feet, oil and strong odor were present at approximately 17 feet;
- SA-Q-3 During monitoring well installation, NAPL was observed at a depth of approximately 7 to 13 feet bgs. However, NAPL was never observed in the monitoring well installed at this boring location.

The NAPL observed within Site Q North at Sonic-5, LEACH-Q-1, PZ-6D, and PZ-8U is considered a principal threat waste; however, these locations are already controlled within the GMCS barrier wall (Operable Unit # 2.). Since NAPL was never observed in the monitoring well SA-Q-3, this location will not be considered to have principal threat waste.

Potential NAPL was observed at one investigation location in Site Q North;

 BT-Q-1 – Potential NAPL was observed at a depth of approximately 15 feet bgs during completion of this boundary trench. The observation of liquid at the bottom of this trench precipitated extensive discussions and led to the definitions of "potential NAPL" and "NAPL." Although Table 1a describes the liquid as NAPL, based on the current definition this liquid is classified as "potential NAPL."

Site Q Central

At Anomaly Trench AT-Q-29 in Site Q Central, a crushed drum was encountered with potential NAPL residue on the inside walls of the drum, which was located approximately 16 feet bgs and at the western edge of the trench. In our opinion, tar-like materials or other high viscosity liquids such as was found in AT-Q-29 are not considered liquids constituting principal threat wastes. These materials are not highly mobile and would be expected to be retained in the fine-grained soils that characterize the shallow hydrogeologic unit at SA2. This potential NAPL residue will not be considered principal threat waste.

Site Q South

At Anomaly Trench AT-Q-35 in Site Q South, liquid leaked into the trench (<3 gallons) from a drum located approximately 12 feet bgs and approximately 15 feet from eastern edge of trench. This potential NAPL will not be considered principal threat waste. However, as discussed in Section 7.0, the intact drums observed at this anomaly trench location will be considered principal threat waste.



Site R

NAPL was observed in Site R at the following locations:

- B-25A During gauging activities, trace amount of DNAPL was present on probe at ~ 30 feet bgs;
- B-25B During gauging activities, trace amount of DNAPL was present on probe at ~ 35 feet bgs;
- B-28B During gauging activities, trace amount of DNAPL was present on probe at ~ 35 feet bgs;
- B-29A During gauging activities, trace amount of DNAPL was present on probe at ~ 32 feet bgs;
- B-29B During sampling activities, approximately 1.55 feet of DNAPL was present at ~ 38 feet bgs;
- SB-1 During soil boring installation, "product" located approximately 95 feet bgs;
- SB-3 During soil boring installation, "yellowish water in drilling fluid" at approximately 15 feet bgs;
- SONIC #3 During soil boring installation, "NAPL" located approximately 56 feet bgs.

The NAPL observed in Site R is considered a principal threat waste; however, these locations are within the GMCS barrier wall and already controlled by Operable Unit # 2.

Site S

Potential NAPL was observed in two trenches in Site S:

- Anomaly Trench AT-S-1 "Liquid" was present in the trench near drum remnant at approximately 4 to 5 feet bgs;
- Boundary Trench BT-S-2 "Liquid" leaked from a partially buried drum remnant located approximately 1.5 feet bgs. Although field notes describe the liquid as NAPL, based on the current definition, this liquid is classified as "potential NAPL."

Liquids which leaked into the trenches from drum remnants in Anomaly Trench AT-S-1 and Boundary Trench BT-S-2 were classified as potential NAPL; however, they did not fit the definition of NAPL and therefore will not be included as principal threat wastes.



7.0 OBSERVATION OF DRUMS

Site O

No drums were observed in the waste materials in Site O.

Site P

Drum remnants and fragments were observed in the waste material in Site P; however, no intact drums were identified. The drums (many of which were fiber drums), found in the trenches at Site P were crushed, split, heavily damaged, or without a lid. It is our opinion that none of the drums found at Site P contained liquids constituting principal threat waste.

Site Q North

Drum remnants and fragments were observed in the waste material in Site Q North; however, no intact drums were identified. The drums found in the trenches at Site Q North were crushed, split, heavily damaged, or without a lid. It is our opinion that none of the drums found at Site Q North contained liquids constituting principal threat waste.

Site Q Central

Drum remnants and fragments were observed in the waste material in Site Q Central; however, no intact drums were identified. The drums found in the trenches at Site Q Central were crushed, split, heavily damaged, or without a lid. It is our opinion that none of the drums found at Site Q Central contained liquids constituting principal threat waste.

Site Q South

Two intact drums were observed in Anomaly Trench AT-Q-35 in Site Q South. Potential NAPL leaked into the trench (<3 gallons) from one of these drums. In addition, four partially uncovered drums were exposed in the leading face of the trench when the trenching activities were halted. Although no analysis of the drum materials were obtained, the intact 2 drums observed in AT-Q-35 are considered principal threat wastes, while the 4 partially exposed drums (which may or may not be intact) may or may not be considered principal threat waste.

Three step-out trenches were excavated in Site Q South associate with AT-Q 35 to delineate the extent of intact drums. Two step-out trenches were excavated to the west of AT-Q-35 at distances of 50 (TT-Q-35-W-1) and 100 (TT-Q-35-W-2) feet. No intact drums were present, but metal drum remnants and fragments and industrial waste were present in TT-Q-35-W-1; therefore, the step-out process was continued. No metal drums or drum fragments or industrial waste were observed in TT-Q-35-W-2;



therefore, further step-out trenches to the west were not excavated. One step-out trench was excavated to the north of AT-Q-35 at a distance of 50 (TT-Q-35-N-1) feet. While ~4 metal drum remnants and fragments were observed in TT-Q-35-N-1, no intact metal drums were present and the density of drum remnants was not as significant as AT-Q-35; therefore, further step-out trenches to the north were not excavated. Therefore, the extent of property that might contain principal threat drums at AT-Q-35 is limited in extent (~100 square feet).

Site R

Drum remnants and fragments were observed in the waste material in Site R; however, no intact drums were identified. The drums found in the trenches at Site R were crushed, split, heavily damaged, or without a lid. It is our opinion that none of the drums found at Site R contained liquids constituting principal threat waste.

Site S

Drum remnants and fragments were observed in the waste material in Site S; however, no intact drums were identified. The drums found in the trenches at Site S were crushed, split, heavily damaged, or without a lid. It is our opinion that none of the drums found at Site S contained liquids constituting principal threat waste.

8.0 EVALUATION OF NAPL AND BURIED DRUMS AT SAUGET AREA 2

USEPA's expectation is that treatment will be used to address the principal threats posed by a site, wherever practical (USEPA, 1991). For sites where drums of waste are present, the most common treatment option is removal and disposal of the drums. A removal and disposal action is straightforward if the drums are located aboveground, but is much more difficult if the drums are buried in scattered locations within fill deposits or waste materials.

At large fill areas, a removal and disposal action for drums containing principal threat wastes would be practical if caches of such drums were actually present, if the caches could be located, if the drums were found to be intact, and if the drums could be safely removed in a relatively intact condition. Based on the information presented in this Tech Memo, large caches of drums containing liquid wastes or highly mobile source material in the areas previously investigated for principal threat waste at Sites O, P, Q, R, and S were not found. Principal threat wastes were observed in the following locations:

• AT-Q-35 in Site Q South: Two intact drums were found where potential NAPL leaked into the trench from one of the drums. Since the two drums were found in close proximity to each other, to be conservative, both were considered to contain liquid and be principal threat waste. The



presence of these two intact drums may be indicative of an area of principal threat waste which extends somewhat beyond the two drums.

- The NAPL observed in Anomaly Trench AT-P-4 and LEACH-P-1.
- NAPL was observed at 8 locations in Site R and is considered a principal threat waste; however, these locations are within the GMCS barrier wall and already controlled within the GMCS barrier wall (Operable Unit # 2).
- The NAPL observed within Site Q North at Sonic-5 and LEACH-Q-1 is considered a principal threat waste; however, these locations are already controlled within the GMCS barrier wall (Operable Unit # 2).

9.0 REFERENCES

USEPA, 1991. "A Guide to Principal Threat and Low Level Threat Wastes", Superfund Publication 9380.3-06FS, November 1991.

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List of Attachments

Attachment 1 Photographs Attachment 2 Field Notes

cc: Brandi Higgins, URS



Tables

Table1a Boundary and Anomaly Trenching Observations 2002 Sauget Area 2

Tourskilosetion	Turnel Date	W	Town of Monte Material	Fridance of Industrial Maste	0
Trench Location	Trench Date	Waste Encountered	Type of Waste Material	Evidence of Industrial Waste	Comments
SITE O					
BT-O-01	6/17/2002	Yes	Native Soil Grading to Lagoon Fill	Lagoon Sludge	Boundary Located, See Field Notebook #2 for Trench Details
BT-O-02	6/17/2002	Yes	Native Soil Grading to Lagoon Fill	Lagoon Sludge	Boundary Located, See Field Notebook #2 for Trench Details
BT-O-03	6/17/2002	Yes	Native Soil Grading to Lagoon Fill	Lagoon Sludge	Boundary Located, See Field Notebook #2 for Trench Details
BT-O-04	6/14/2002	Yes	Native Soil Grading to Lagoon Fill	Lagoon Sludge	Boundary Located, See Field Notebook #2 for Trench Details
SITE P					
BT-P-01	6/12/2002	Yes	Municipal Waste	No	Boundary Located, See Field Notebook #2 for Trench Details
BT-P-02	6/12/2002	Yes	Municipal Waste	No	Boundary Located, See Field Notebook #2 for Trench Details
BT-P-03	6/12/2002	Yes	Municipal Waste	Drum Lid	Boundary Not Located
BT-P-04	6/12/2002	Yes	Municipal Waste	No	Boundary Not Located - Road Present in Step-Out Direction
AT-P-01	8/14/2002	Yes	Construction Debris	Drum Remnants	None
SITE Q NORTH					
BT-Q-01	6/10/2002	Yes	Municipal Waste	NAPL	Boundary Not Located - Road/Utilities Present in Step-Out Direction
BT-Q-02	NA	NA	NA	NA	Boundary Trench in Same Location as BT-R-03
BT-Q-03	6/5/2002	Yes	Municipal Waste	No	Boundary Not Located - Road Present in Step-Out Direction
BT-Q-04	NA	NA	NA	NA	Boundary Trench in Same Location as BT-R-04
BT-Q-05	6/21/2002	No	NA	No	Boundary Not Located, Wood Chips and Coal Cinders Observed Over Length of Trench
AT-Q-11	6/5/2002	Yes	Municipal Waste	Drum Remnants	Observed Fiber Drum Remnant with "Monsanto" Printed on Side
SITE Q CENTRAL					
BT-Q-06	6/6/2002	Yes	Municipal Waste	No	Boundary Not Located, Could Not Step Out Full 40' Due to Mulch Piles and Pond
AT-Q-12	6/6/2002	Yes	Construction Debris	No	None
AT-Q-13	6/6/2002	Yes	Construction Debris	No	None
AT-Q-14	6/11/2002	Yes	Construction Debris	No	None
AT-Q-15	6/7/2002	Yes	Municipal Waste	Drum Lid	None
AT-Q-16	6/11/2002	Yes	Construction Debris	No	Encountered Concrete Slab Approx. 3' bgs at 3 Offset Locations
SITE Q SOUTH					
BT-Q-07	6/10/2002	Yes	Municipal Waste	Drum Remnants	Boundary Not Located
BT-Q-08	8/12/2002	Yes	Municipal Waste	No	Boundary Located, See Field Notebook #2 for Trench Details
BT-Q-09	8/12/2002	Yes	Municipal Waste	No	Boundary Located, See Field Notebook #2 for Trench Details
BT-Q-10	8/12/2002	No	NA	No	Boundary Not Located
AT-Q-18	8/12/2002	Yes	Municipal Waste	Metal Tank ~ 55 gal.	None
SITE R					
BT-R-01	6/19/2002	Yes	Industrial Waste	White Crystalline Material	Boundary Not Located - Road Present in Step-Out Direction
BT-R-02	6/20/2002	Yes	Industrial Waste	Drum Remnants	Boundary Located, See Field Notebook #2 for Trench Details
BT-R-03	6/21/2002	Yes	Industrial Waste	Drum Remnants	Boundary Not Located, Trench Location Adjacent to Site Q
BT-R-04	6/20/2002	Yes	Industrial Waste	White Crystalline Material	Boundary Located, See Field Notebook #2 for Trench Details
AT-R-01	8/13/2002	Yes	Industrial Waste	Drum Remnants	None
SITE S					
BT-S-01	6/13/2002	Yes	Industrial Waste	Drum Remnants	Boundary Located, See Field Notebook #2 for Trench Details
BT-S-02	6/14/2002	Yes	Industrial Waste	Drum Remnants, NAPL	Boundary Not Located - Utilities Present in Step-Out Direction
BT-S-03	6/13/2002	No	NA	No	Boundary Not Located - Sandy Native Soil Observed Over Length of Trench
BT-S-04	6/14/2002	Yes	Industrial Waste	Drum Remnants	Boundary Located, See Field Notebook #2 for Trench Details
AT-S-01	8/14/2002	Yes	Industrial Waste	Drum Remnants	URS Upgraded to Level B PPE

Notes:

NAPL - Non-Aqueous Phase Liquid bgs - Below Ground Surface NA - Not Applicable

Anomaly Trench AT-Q-17 was not advanced due to the placement of approximately 30' of fill material by property owner.

Table1b Boundary and Anomaly Trenching Observations 2005 Sauget Area 2

Trench Location	Trench Date	Waste Depth (ft bgs)	Groundwater Depth (ft bgs)	Gross Contamination Sample Depth	Magnetic Anomaly Explained	High PID reading (ppm)	Drums/Drum Remnants Encountered	Waste Encountered	NAPL/Liquid	Notes
SITE P										
AT-P-2	5/26/2005	0-TD (21')	~18-20	10 ft bgs Drum remnants present, elevated PID reading (headspace ~181 ppm)	Yes	PID 208 ppm at slightly crushed drum with tan grout- like material inside	~7 slighltly crushed to crushed 55- gallon metal drums ~20 fiber drum remnants	Industrial waste an orange powdery material, a white powdery material, black staining inside a slightly crushed metal drum, and a tan grout-like material inside a slightly crushed metal drum.	A white, cloudy liquid was encountered dripping from crushed drum. A sample of the white cloudy liquid from drum was submitted to lab for analysis. The lab reported there was no phase separation.	Trench advanced partially in Level C PPE.
AT-P-3	6/13/2005	3-TD (15-16')	~12	10 ft bgs Fiber drum remnants present	Yes	PID 506 ppm at small metal containers	1 slightly crushed 55-gallon metal drum ~50-75% of backhoe buckets contained fiber drum remnants/fragments.	Industrial waste a crystalline solid, magenta stained soils/waste, an orange powdery material, a yellow, powdery substance, a yellow solid, a white solid, and a tan grout-like material. ~10 small metal containers (some with lime green solids) Municipal waste paper, plastic, glass, fabric, cans Construction debris concrete slabs, brick, metal debris and rubber		
AT-P-4	5/25/2005	0-17	~8	4 ft bgs Drum remnants and NAPL present	Yes	PID ~220 ppm at crushed drum with white crystalline contents	~10-12 slightly crushed to crushed 55-gallon metal drums, ~ ½ of which contained solid wastes ~20-30 fiber drum remnants	Industrial waste colored solids / white crystalline materials and rounded brown ball bearing, purple, tan, and green solids, black stained soil in drum remnant	NAPL observed dripping from one bucket of spoils. NAPL on fiberglass gas cylinder	Submitted a sample of the NAPL dripping from bucket for analysis.
AT-P-5	6/9/2005 & 6/10/2005	3-14	~13	12 ft bgs Crushed drum present, elevated PID readings (headspace ~ 98 ppm)	Yes	PID 1,072 ppm at metal bucket containing an orange solid	2 slightly crushed 55-gallon metal drums were observed, contained a yellow-orange fibrous material and PPE (with a propylene oxide label) ~4 metal drum remnants,deteriorated ~20 fiber or plastic drum remnants ~2 slightly crushed fiber drums	Industrial waste grout-like substance, black staining/oily sheen on plastic drum lids, dried paint and green staining in fiber drum. ~50 1-2 gallon metal crushed or partially crushed buckets/containers		The trench was moved approximately 150 feet west of original location and rotated to a north-south alignment in order to place trench west of the nightclub asphalt parking lot/fence.
SITE Q NO										
AT-Q-19	5/16/2005	0.5 - 7-9			Yes			Construction debris Concrete, bricks, piece of metal		
AT-Q-20	5/12/2005	3.5-25*	~25		Yes			Construction debris Concrete, rebar Municipal waste car batteries, tires, wood, plastic, light green crystal material *- At ~18' bgs - TD, waste materials mixed within sands		
AT-Q-21	5/13/2005	1-14.5	~11.5	8 ft bgs Sheen observed on spoils/surface of groundwater within trench	Yes			Industrial waste 1 drum lid Municipal waste trash, tires, hose, pieces of wood Construction debris concrete, rebar		Per field agreement between URS and CH2M HILL, confining clay layer (~15' bgs) was not penetrated during trenching so conduit for perched water table was not created.
SITE Q CE	NTRAL									
AT-Q-22	6/8/2005	0-3	~20		Yes			Construction debris 2' piece scrap metal		
AT-Q-23	5/3/2005	0-5	~20		Yes			Construction debris concrete slab		
AT-Q-24	5/4/2005	0-20			Yes			Construction debris concrete, rebar		Rotated to north-south alignment due to obstructions
AT-Q-25	5/9/2005	2 - 15'		9 ft bgs Drum remnants present	Yes	PID 400 ppm at spoils pile from deeper portion of trench	~5 drum remnants observed	Industrial waste Yellow crystalline solid in 5- gallon pail, 55-gallon drum remnant containing tan grout-like substance observed, white powdering material, and orange solid material. Municipal waste trash, plastic Construction debris concrete, rebar		~ 15 ' in length of trench not excavated completely through waste after BZ PID measurements recorded in exceedance of action levels. Subsurface and surface soil samples not collected since soil samples collected from shallow aquifer well, SA-Q-6 (located ~10 feet north of trench) per agreement with USEPA.
AT-Q-26	5/4/2005	0-20	~20		Yes			Construction debris Rebar, concrete, man- hole lid, metal		
AT-Q-27	5/5/2005	0-7			Yes			Construction debris Rebar, concrete, wood, pipes, bricks,		

Table1b Boundary and Anomaly Trenching Observations 2005 Sauget Area 2

Trench Location	Trench Date	Waste Depth (ft bgs)	Groundwater Depth (ft bgs)	Gross Contamination Sample Depth	Magnetic Anomaly Explained	High PID reading (ppm)	Drums/Drum Remnants Encountered	Waste Encountered	NAPL/Liquid	Notes
AT-Q-28	5/5/2005	0- 3.5-5.5	~18		Yes			Construction debris steel door, table, pieces of metal		
AT-Q-29	5/6/2005 & 6/2/2005	3 - 16.5-23'	~23	16 ft bgs Drum remnants present	Yes	PID 53.5 ppm at drum remnant	~6 drum remnants	Industrial waste 1 drum remnanat coated with black oily substance on inside, several drum remnants contained paint and fibrous material Municipal waste trash, plastic, bottles, Construction debris scrap metal Depth of waste tapered deeper toward river	Drum remnanat coated with black oily substance on inside	Trench was excavated on multiple days due to necessity of excavator with greater reach. Mobilized "long-stick" excavator order to trench through waste to native soils.
AT-Q-30	5/10/2005 5/11/2005 & 6/3/2005	1-24'			Yes			Construction debris concrete, rebar, wood, brick Municipal waste metal fragments, tires		Moved west due to high voltage power lines. Trench was excavated on multiple days due to necessity of excavator with greater reach. Mobilized "long-stick" excavator order to trench through waste to native soils.
AT-Q-31	5/2/2005 to 5/3/2005	2-22'		12 ft bgs Drum remnant present	Yes		1 drum remnant	Municipal wastemetal debris, tires, bottles, RR ties Industrial wastesmall drum/container (~5-10 gallon), drum lid Construction debrisbrick, concrete		
AT-Q-32	5/24/2005	4-8'		6 ft bgs Headspace-342 ppm	Yes	PID 342 ppm- Headspace on gross contamination sample		Municipal waste trash, plastic, bottles, cans, metal debris, wood/timbers, tires, and shredded rubber Industrial waste ~5 drum lids		Trench partially excavated in Level C
SITE Q SO	OUTH									
AT-Q-33	5/20/2005	0.5-4 to 0-12		5 ft bgs Crushed drum, elevated PID readings (scan of drum (>4000 ppm))	Yes	PID 4000 ppm at crushed drum	~4-7 drum remnants at southern end of trench	Northern end of trench— Construction debris brick, rebar, concrete Southern end of trench Industrial waste potential gas cylinder, tank, chemical solids Municipal waste wood debris / timbers		Trench excavated in Level B PPE. Waste increased in thickness and became more industrial / municipal as trench advanced to south. Location moved to south and aligned north-south to investigate northern edge of elevated area in Q South.
AT-Q-34	5/23/2005	0.5-4 to 0-8			Yes		One drum lid	Municipal waste wood, metal debris, trash Construction debris bricks Industrial waste a lab pack containing four 1- gallon bottles of acid in polystyrene pack		Trench excavated in Level B PPE.
AT-Q-35	5/19/2005	0-TD (20')	~18	8 ft bgs Drums present	Yes	PID > 600 ppm at yellow solid material (in drum torn in half by trackhoe)	~2 potentially intact 55 gallon metal drums and ~8 drum remnanats	Industrial waste Yellow solid material in drum (torn 1/2 by trackhoe) solids, paint, rubber-like pellets, staining, rubber, plastic Construction debris brick and wood	Liquid observed draining into trench potentially from drum in side wall of trench.	Trench excavated in Level B PPE. Trench halted after significant number of drums observed, ~ 4 partially uncovered drums exposed in leading face of trench Trench straddled bank / increase in surface elevation of 6-8 ft into trees. Location moved to west across elevated area and aligned east-west.
AT-Q-36	5/18/2005	0-10			Yes			Municipal waste tires, plastic, fabric, appliances, glass, and paper		Trench excavated in Level B PPE based on anticipation of drums in area, air monitoring during excavation did not indicate elevated levels of organic vapors. Trench straddled bank / increased surface elevation into trees. Waste thickness remained approximately consistent on both sides of the 6-8 ft bank.

Table 1c Step-out Test Trenching Observations 2005 Sauget Area 2

Original Trench ID	Step-out Test Trench ID	Location Description	Trench Date	Waste Depth (ft bgs)	Groundwater Depth (ft bgs)	High PID reading (ppm)	Drum/Drum Remnants Encountered	Waste Encountered	Step-out further (in same direction)?	Notes
SITE P										
AT-P-2	TT-P-2-N-1	50' north of original trench location	6/6/2005	0-TD (21')	20	PID 40 ppm at 5-10 gal metal container	Fiber drums remnants and fragments (>30) in various states of deterioration	Industrial waste Small metal pail / containers (2-3) observed, drum lids, bright orange/yellow powder and a white fibrous material. Municipal waste wood, cinders, concrete, bricks, rubber boots/gloves, paper, and fabric	Yes	
-	TT-P-2-N-2	100' north of original trench location	6/6/2005	3-TD (15')		PID 70 ppm at metal pail	~8 fiber drum remnanats and numerous fragments	Industrial waste a bright yellow powder and a metal pail with tan solid material Municipal waste wood, paper, plastic, trash, empty bags of zinc oxide	No	Test trench excavated in Level C PPE. No metal drums or drum fragments were observed in the trench and the density of industrial was not as significant as AT-P-2, therefore, further step-out to the north was not conducted.
_	TT-P-2-S-1	50' south of original trench location	6/7/2005	3-TD	18-20	PID 202 ppm at container labeled aryl sulfonamide formaldehyde	1 crushed 55-gallon metal drum ~7-10 fiber drum remnants	Industrial waste 5-10 gal metal bucket labeled aryl sulfonamide formaldehyde, fiber drum remnants w/white powder Municipal waste bricks, wood, newspaper, and trash bags	Yes	
-	TT-P-2-S-2	100' south of original trench location	6/7/2005	3-TD			2 drum remnants ~2 crushed metal 55-gallon drums		Yes	
-	TT-P-2-S-3	150' south of original trench location	6/7/2005	0-TD		PID 86 ppm at purple staining	~ 2 crushed metal drums ~ 2 remnants or fragments ~3-4 fiber drum fragments, some with purple staining	Industrial waste purple staining on fiber drum remnants, crushed drum with black staining and liquid leaking out. Municipal waste wood, trash bags, fabric, plastic, and metal debris.	No	Did not step-out due to anomaly trench approx. 150' south, which was previously observed to contain 55-gal. metal drums remnants. (AT-P-1 from RI, August 2002).
SITE Q SOL	UTH									
AT-Q-35	TT-Q-35-W-1	50' west of original trench location	5/31/2005	0.5-12		PID 230 ppm at purple/grey material in one drum	Drum remnants and ~2 crushed drums	Industrial waste purple/grey rubbery material observed in one drum remnant. Municipal waste tires, metal debris, plastic, glass, wood, and fabric Construction debris rebar, bricks	Yes	Test trench excavated in Level B PPE.
-	TT-Q-35-W-2	100' west of original trench location	5/31/2005	0-8	18			Municipal waste plastic, shredded tires, household trash, wood, fabric Construction debris concrete & rebar, cinders, and wood	No	Test trench excavated in Level B PPE.
-	TT-Q-35-N-1	50' north of original trench location	5/31/2005	0-20	18		~4 drum fragments/ remnants	Municipal waste yellow solid, tires, wood, trash (plastic etc.) Construction debris concrete, rebar, metal debris	No	Test trench excavated in Level B PPE.
AT-Q-33	TT-Q-33-E-1	50' east of original trench location	6/1/2005	0-20			Two crushed metal drum remnants and one plastic	Municipal waste wood debris, timbers, scrap metal, insulation, bottles, household trash Construction debris concrete	No	Test trench excavated in Level B PPE.
-	TT-Q-33-S-1	50' south of original trench location	6/1/2005	0-14				Municipal waste tires, fabric, wood, concrete, plastic, metal debris, and trash	No	Test trench excavated in Level B PPE.
-	TT-Q-33-SE-1	50' southeast of original trench location (bisecting first 2 step-out trenches)	6/1/2005	0.5-18				Municipal waste plastic, tires, wood debris/timbers, bottles, fabric, paper waste, cinders, concrete, glass fragments.	No	Test trench excavated in Level B PPE.

Notes

NAPL - Non-Aqueous Phase Liquid bgs - Below Ground Surface



Attachment 1

Photo Log Site P

PHOTOGRAPHIC LOG

Project No.

Client Name: Site Location:
Sauget Area 2 Group Sauget, Illinois

Photo No. Date: 8/14/02

Description:Anomaly Trench-P-1

Before

Direction Photo Taken: West



Photo No. Date: 8/14/02

Description:

Anomaly Trench -P-1 Before

Direction Photo Taken: West



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No.

3 8/14/02

Date:

Description:

Anomaly Trench -P-1



Photo No.

Date: 8/14/02

Description:

Anomaly Trench -P-1



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No.

Date: 8/14/02

Description:

Anomaly Trench-P-1



Photo No.

Date: 8/14/02

Description:

Anomaly Trench-P-1



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No.

7 8/14/02

Date:

Description:

Anomaly Trench-P-1



Photo No.

Date: 8/14/02

Description:

Anomaly Trench-P-1



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 9

Date: 8/14/02

Description:Anomaly Trench-P-1

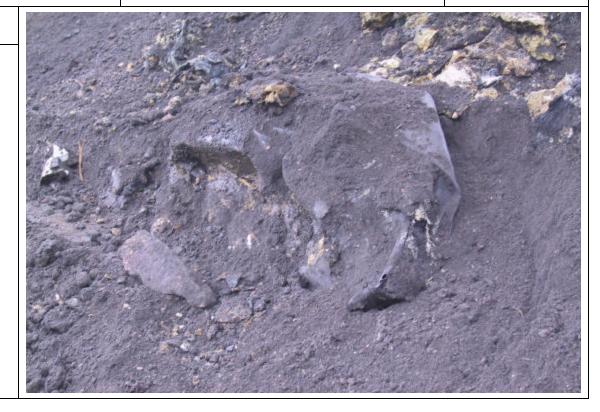


Photo No. 10

Date: 8/14/02

Description:Anomaly Trench-P-1



PHOTOGRAPHIC LOG

Client Name:

Site Location:

Project No.

Sauget Area 2 Group

Sauget, Illinois

21560888

Photo No. 11

Date: 8/14/02

Description:Anomaly Trench-P-1



Photo No. 12

Date: 8/14/02

Description:

Anomaly Trench -P-1

Direction Photo Taken: Northwest



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No. 21560888

Photo No.

Date: 8/14/02

Description:

Anomaly Trench-P-1 After

Direction Photo

Taken: Northwest



Photo No.

Date: 8/14/02

Description:

Anomaly Trench-P-1 After

Direction Photo

Taken: West





Client Name:

Site Location:

Project No.

Sauget Area 2 Sites Group

Sauget, Illinois

21561510

Photo No. 1

Date: 5/25/05

Description:

Setting up at AT-P-4



Photo No.

Date: 5/25/05 2

Description: AT-P-4





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No.

Date: 5/25/05

Description:

AT-P-4



Photo No.

Date: 5/25/05

Description: AT-P-4





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois **Project No.** 21561510

Photo No.

5

Date: 5/25/05

Description: AT-P-4

5/



Photo No.

6

Date: 5/25/05

Description: AT-P-4





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561510

Photo No.

7

Date: 5/25/05

Description: AT-P-4

Sauget, Illinois

Monsanto Company

-IT -YOURSFLF SAFETY COM THE POWERHOUSE SAFETY IN THE POWERHOUSE SAFETY IN THE POWERHOUSE SAFETY IS "ENTHUSIASM." COMMENTS FROM MEMBERS OF THE SIX PERSON THE FIRST TWO MONTHS OF THE PROGRAM, AS WELL AS FROM LE, SPEAK MORE FAVORABLY ABOUT THE PROGRAM THAN ANY TEST OF THE PROGRAM ARE EVIL DEPOSSIBLY BE WRITTEN. BENEFITS OF THE PROGRAM ARE EVIL ITMENT TO TOTAL INVOLVEMENT.

SAFETY COMMITTEE HAS CHANGED AND A NEW TEAM IS AT THE HELD FOF LAND WHO REMAINS WITH LAND WHO REPORT HAS A RECENT CEREMONY IN THE POWERHOUSE WHEN NEW COMMITTEE REPLACE A RECENT CERTIFICATES OF MERIT TO THE JANUARY-FEBRUARY PRESENTATION OF CERTIFICATES OF MERIT TO THE JANUARY-FEBRUARY PRESENTATION OF THEIR INVOLVEMENT, CONTRIBUTION AND TOTAL SUPPORT OF THE WAS AND WILL REMAIN RAY DANIELS, FIREWAY LARRY HARPER, COAL PASSER; HENRY DURR, LARRY HARPER, COAL PASSER; HENRY DURR, LARRY HARPER, COAL PASSER; HENRY DURR, MEES, ASH HANDLER, BOB IS IN TRAINING AFIREMAN AND WILL REPRESENT THAT CLASS-CATION ON THE NEW COMMITTEE. FOLLOWING ARE CATION ON THE NEW COMMITTEE. FOLLOWING ARE CATION ON THE NEW COMMITTEE. FOLLOWING ARE CATION ON THE NEW COMMITTEE. FOLLOWING ARE WELL AS WORDS ABOUT THE POWERHOUSE'S WELL AS WORDS ABOUT THE POWERHOUSE'S STORY AS RELATED

Photo No.

8

Date: 5/25/05

Description: AT-P-4





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No.

9

Date: 5/25/05

Description:

AT-P-4



Photo No. 10

Date: 5/25/05

Description: AT-P-4





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No.

11

Date: 5/25/05

Description:

AT-P-4



Photo No.

Date: 5/25/05 12





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois **Project No.** 21561510

Photo No.

13

Date: 5/25/05

Description: AT-P-4



Photo No.

Date: 5/25/05





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No. 15

Date: 5/25/05

Sauget, Illinois

21561510

Description: AT-P-4



Photo No.

Date: 5/25/05 16





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No.

17

Date: 5/25/05

Description:

AT-P-4



Photo No.

Date: 5/25/05





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561510

Project No.

Photo No. 19

Date:

5/25/05

Description: AT-P-4



Photo No.

Date: 5/25/05 20





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561510

Project No.

Photo No.

21

Date: 5/25/05

AT-P-4

Description:



Photo No.

Date: 5/25/05 22





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No.

Photo No.

Date: 5/25/05

21561510

23 Description: AT-P-4



Photo No.

Date: 5/25/05 24





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No.

Photo No. 25

Date: 5/25/05

21561510

Description: AT-P-4



Photo No.

Date: 5/25/05 26





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No. 27

Date: 5/25/05

Sauget, Illinois 21561510

Description:

AT-P-4



Photo No. 28

Date: 5/25/05





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No.

29

Date: 5/25/05

Description:

AT-P-4



Photo No.

Date: 5/25/05 30





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No. 31

Date: 5/25/05

Description: AT-P-4



Photo No.

Date: 5/25/05 32





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No.

Date: 5/25/05

Sauget, Illinois

21561510

33 Description:

AT-P-4



Photo No.

Date: 5/25/05 34





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No. 35

Date: 5/25/05

Description: AT-P-4



Photo No. 36

Date: 5/25/05

Description:AT-P-4 after backfilling and trenching activities completed





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No.

Photo No. **37**

Date: 5/25/05

21561510

Description:

AT-P-4



Photo No.

Date: 5/25/05 38





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

Date: 7/26/06

Description:

Leach-P-1

Bailer covered in NAPL.



Photo No.

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No.

2

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.



Photo No.

4

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

21561683

Project No.

Photo No.

Date: 7/26/06

Description:

Leach-P-1 Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.



Photo No.

Date: 7/26/06 6

Description:

Leach-P-1 Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.



Photo No.

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561683

Project No.

Photo No.

9

Date: 7/27/06

Description: Leach-P-1

Bailer covered in NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No.

o. Date: 7/27/06

Description: Leach-P-1

Bailer covered in NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

Date: 7/26/06

Description:

Leach-P-1

Bailer covered in NAPL.



Photo No.

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No.

2

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.



Photo No.

4

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

21561683

Project No.

Photo No.

Date: 7/26/06

Description:

Leach-P-1 Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.



Photo No.

Date: 7/26/06 6

Description:

Leach-P-1 Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.



Photo No.

Date: 7/26/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561683

Project No.

Photo No.

9

Date: 7/27/06

Description: Leach-P-1

Bailer covered in NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No. 10

Date: 7/27/06

Description: Leach-P-1

Bailer covered in NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No. Date: 7/27/06

Description: Leach-P-1 Bailer covered in

Bailer covered in NAPL on first attempt to collect a sample.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683



Description: Leach-P-1 Bailer covered in NAPL

on first attempt to collect a sample.





Client Name:

Sauget Area 2 Sites Group

Photo No. 13

Date: 7/27/06

Description: Leach-P-1

Bailer covered in NAPL on second attempt to collect sample.

Site Location: Sauget, Illinois

Project No.

21561683





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561683

Project No.

Photo No. 14

Date: 7/27/06

Description: Leach-P-1 Bailer covered in NAPL, on third attempt to collect sample.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No. Date: 7/27/06

Description: Leach-P-1

Bailer covered in NAPL





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No. Date: 7/27/06

Description: Leach-P-1

Bailer covered in NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561683

Project No.

Photo No. 17

Date: 7/27/06

Description: Leach-P-1 Bailer covered in NAPL. Unable to collect sample.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No. 18

7/27/06

Date:

Description: Leach-P-1

Bailer covered in NAPL. Unable to collect sample.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No.

19

Date: 7/27/06

Description: Leach-P-1





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No.

Date: 20

Description: Leach-P-1.





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois Project No.

Photo No. 21

. **Date:** 7/27/06

21561683

Description: Leach-P-1



Photo No. 22

Date: 7/27/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

Date: 7/27/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.



Photo No. 24

Date: 7/27/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No. Date:

25

7/27/06

Description:

Leach-P-1
Sample jars placed on windowsill near window to attempt to see the separation between L-NAPL and water, and between the water and D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

21561510

Project No.

Photo No.

Date: 6/7/05

Description:

TT-P-2-S3



Photo No.

Date: 6/7/05

Description: TT-P-2-S3





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No.

Date: 6/7/05

Description: TT-P-2-S3



Photo No. 4

Date: 6/7/05

Description: TT-P-2-S3





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No. 5

Date: 6/7/05

Description: TT-P-2-S3



Photo No. 6

Date: 6/7/05

Description: TT-P-2-S3





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No.

Photo No. 7

Date: 6/7/05

21561510

Description:

TT-P-2-S3



Photo No.

Date: 6/7/05 8

Description: TT-P-2-S3





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

21561510

Project No.

Photo No.

Date: 6/7/05

Description: TT-P-2-S3

Photo No.

Date: 6/7/05

Description: TT-P-2-S3





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561510

Photo No.

11

Date: 6/7/05

Description: TT-P-2-S3





Attachment 1

Photo Log Site Q



Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No.

1

Date: 5/6/05

Description: AT-Q-29



Photo No.

Date: 5/6/05





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No.

Date: 5/6/05

Description: AT-Q-29



Photo No.

Date: 5/6/05 4





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561510

Project No.

Photo No. 5

Date: 5/6/05

Description: AT-Q-29



Photo No. 6

Date: 5/6/05





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No.

Date: 5/6/05

Description: AT-Q-29



Photo No. 8

Date: 5/6/05





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561510

Photo No.

Date: 6/2/05

Description:

AT-Q-29 6-2-05, using excavator with longer reach



Photo No.

Date: 6/2/05





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No.

11

Date: 6/2/05

Description:

AT-Q-29



Photo No. 12

Date: 6/2/05





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561510

Project No.

Photo No. 13

Date: 6/2/05





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561510

Photo No.

14

Date: 5/6/05

Description: AT-Q-29 before trenching activities



Photo No.

Date: 5/6/05 15





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No.

16

Date: 5/6/05

Description: AT-Q-29

Photo No.

Date: 5/6/05 17





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois Project No.

Photo No.

18

Date: 5/6/05

21561510

Description:

AT-Q-29



Photo No.

Date: 5/6/05





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No. 20

Date: 5/6/05

Description: AT-Q-29



Photo No.

Date: 5/6/05 21





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

21561510

Project No.

Photo No.

Date: 5/6/05

Description: AT-Q-29

Photo No. 23

Date: 5/6/05





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561510

Photo No. 24

Date: 6/2/05

Description: AT-Q-29



Photo No.

Date: 6/2/05 25





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561510

Photo No.

Date: 6/2/05

Description: AT-Q-29



Photo No. 27

Date: 6/2/05





Client Name:

Site Location:

Project No.

Sauget Area 2 Sites Group

Sauget, Illinois

21561510

Photo No.

Date: 5/19/05

Description:

AT-Q-35



Photo No. 2

Date: 5/19/05





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois **Project No.** 21561510

Photo No.

Date: 5/19/05

Description: AT-Q-35



Photo No.

Date: 5/19/05



Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No.

Photo No. 5

Date: 5/19/05

21561510

Description:

AT-Q-35



Photo No. 6

Date: 5/19/05





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois Project No.

21561510

Photo No.

Date: 5/19/05

Description: AT-Q-35



Photo No.

Date: 5/19/05





Client Name:

Site Location:

Project No.

Sauget Area 2 Sites Group

Sauget, Illinois

21561510

Photo No.

10.

Date: 5/19/05

Description: AT-Q-35



Photo No.

Date: 5/19/05





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No. 11

Date: 5/19/05

Description:

AT-Q-35



Photo No. 12

Date: 5/19/05





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No. 13

Date: 5/19/05

Sauget, Illinois

21561510

Description: AT-Q-35

Photo No. 14

Date: 5/19/05





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No.

Photo No.

Date: 5/19/05

Sauget, Illinois

21561510

Description: AT-Q-35



Photo No.

Date: 5/19/05





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois **Project No.** 21561510

Photo No.

Date: 5/19/05

Description: AT-Q-35



Photo No.

Date: 5/19/05

Description:

AT-Q-35

After backfilling activity



URS

PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 1

Date: 6/4/02

Description:Boundary Trench-Q-1
Before – 1st Attempt

Direction Photo

Taken: South



Photo No. 2

Date: 6/4/02

Description:Boundary Trench-Q-1 Before

Direction Photo Taken:

South



URS

PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 3

Date: 6/4/02

Description:

Boundary Trench-Q-1 Before

Direction Photo

Taken: Southeast



Photo No.

4

Date: 6/4/02

Description:Boundary Trench-Q-1

Direction Photo Taken:

Northeast



URS

PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 5

Date: 6/4/02

Description:Boundary Trench-Q-1



Photo No.

6

Date: 6/4/02

Description:Boundary Trench-Q-1



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illniois

Project No.

21560888

Photo No.

Date: 6/4/02

Description:Boundary Trench-Q-1



Photo No. 8

Date: 6/4/02

Description:

Boundary Trench-Q-1

Direction Photo Taken:

West



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 9

Date: 6/4/02

Description:Boundary Trench-Q-1



Photo No.

Date: 6/4/02 10

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 11

Date: 6/4/02

Description:Boundary Trench-Q-1



Photo No.

12

Date: 6/4/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 13

Date: 6/4/02

Description:Boundary Trench-Q-1



Photo No.

14

Date: 6/4/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 15

Date: 6/4/02

Description:Boundary Trench-Q-1



Photo No. 16

Date: 6/4/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 17

Date: 6/4/02

Description:Boundary Trench-Q-1

Direction Photo

Taken: South



Photo No. 18

Date: 6/4/02

Description:Boundary Trench-Q-1

Direction Photo

Taken: West



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Project No. 21560888

19

Date: 6/4/02

Photo No.

Description:Boundary Trench-Q-1



Photo No.

20

Date: 6/4/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 21

Date: 6/4/02

Description:Boundary Trench-Q-1 After

Direction Photo

Taken: East



Photo No.

22

Date: 6/4/02

Description:Boundary Trench-Q-1 After

Direction Photo

Taken: Southeast



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Project No.

Sauget, Illinois

21560888

Photo No. 23

Date: 6/4/02

Description:

Boundary Trench-Q-1 After

Direction Photo

Taken: Southeast



Photo No.

24

Date: 6/4/02

Description:Boundary Trench-Q-1 After

Direction Photo Taken:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Project No.

Photo No. **25**

Date: 6/4/02

Description:

Boundary Trench-Q-1 After

Direction Photo

Taken: South



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 26

Date: 6/10/02

Description:
Boundary Trench-Q-1
Before – Offset
location, 2nd Attempt

Direction Photo

Taken: East



Photo No.

27

Date: 6/10/02

Description:Boundary Trench-Q-1 Before

Direction Photo Taken:

Southeast



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 28

Date: 6/10/02

Description:Boundary Trench-Q-1

Direction Photo Taken:

Southwest



Photo No.

29

Date: 6/10/02

Description:Boundary Trench-Q-1

Direction Photo Taken:

West



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 30

Date: 6/10/02

Description:Boundary Trench-Q-1



Photo No. 31

Date: 6/10/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. **32**

Date: 6/10/02

Description:Boundary Trench-Q-1



Photo No. 33

Date: 6/10/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 34

Date: 6/10/02

Description:Boundary Trench-Q-1



Photo No. 35

Date: 6/10/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 36

Date: 6/10/02

Description:Boundary Trench-Q-1



Photo No. **37**

Date: 6/10/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Site Location:

Project No.

Sauget Area 2 Group

Sauget, Illinois

21560888

Photo No. 38

Date: 6/10/02

Description:Boundary Trench-Q-1



Photo No. 39

Date: 6/10/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 40

Date: 6/10/02

Description:Boundary Trench-Q-1



Photo No.

41

Date: 6/10/02

Description:



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 42

Date: 6/10/02

Description:Boundary Trench-Q-1



Photo No.

43

Date: 6/10/02

Description:

Boundary Trench-Q-1

Direction Photo Taken: Northwest



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 44

Date: 6/10/02

Description:Boundary Trench-Q-1 After

Direction Photo

Taken: East



Photo No.

45

Date: 6/10/02

Description:Boundary Trench-Q-1 After

Direction Photo Taken:

South



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

Photo No.

Date: 7/26/02

Description:Well Sampling
Leachate-Q-1



Photo No.

2

Date: 7/26/02

Description:

Well Sampling Leachate-Q-1



PHOTOGRAPHIC LOG

Client Name:

Site Location:

Project No.

Sauget Area 2 Group

Sauget, Illinois

21560888

Photo No. 3

Date: 7/26/02

Description: Well Sampling Leachate-Q-1





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561683

Project No.

Photo No.

Date: 5/10/06

Description: NAPL-A (0-5')



Photo No. 2

Date: 5/10/06

Description: NAPL-A (0-5')





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois **Project No.** 21561683

Photo No.

Date: 5/10/06

Description: NAPL-A (5-15')



Photo No.

Date: 5/10/06

Description: NAPL-A (5-15')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No. 5

Date: 5/10/06

Description:

NAPL-A (5-15')



Photo No.

Date: 5/10/06 6

Description: NAPL-A (15-35')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No.

Date: 5/10/06

Description:

NAPL-A (35-55')



Photo No.

Date: 5/10/06

Description: NAPL-A (35-55')





Project No.

Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois 21561683

Photo No.

9

Date: 5/10/06

Description: NAPL-A (55-75')



Photo No.

Date: 5/10/06

Description: NAPL-A (75-95')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

Photo No. 11

Date: 5/10/06

Description:

NAPL-A (75-95')



Photo No.

Date: 5/10/06 12

Description: NAPL-A (95-115')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

13

Date: 5/10/06

Description:

NAPL-A (115-135')



Photo No.

14

Date: 5/10/06

Description: NAPL-A (115-135')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

Photo No.

Date: 15

5/10/06

Description:

NAPL-A (135-140')



Photo No. 16

Date: 5/10/06

Description: NAPL-A (135-140')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No.

Date: 5/9/06

Description: NAPL-B (0-5')



Photo No.

Date: 5/9/06

Description: NAPL-B (0-5')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

Photo No.

Date: 5/9/06

Description: NAPL-B (5-15')



Photo No.

4

Date: 5/9/06

Description: NAPL-B (5-15')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No.

Date: 5/9/06

Description: NAPL-B (5-15')



Photo No.

Date: 5/9/06

Description: NAPL-B (15-25')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

7

Date: 5/9/06

Description:

NAPL-B (25-35')



Photo No.

Date: 5/9/06

Description: NAPL-B (25-35')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

Date: 5/9/06

Description: NAPL-B (35-55')



Photo No.

Date: 5/9/06

Description: NAPL-B (35-55')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No.

Date: 5/9/06

Description: NAPL-B (55-75')



Photo No.

Date: 5/9/06

Description: NAPL-B (55-75')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No.

13

Date: 5/9/06

Description: NAPL-B (75-95')



Photo No.

Date: 5/9/06

Description: NAPL-B (75-95')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

Photo No.

Date: 5/9/06 15

Description:

NAPL-B (95-115')



Photo No. 16

Date: 5/9/06

Description: NAPL-B (95-115')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No.

Date: 5/9/06

Description:

NAPL-B (115-135')



Photo No. 18

Date: 5/9/06

Description: NAPL-B (115-135')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No. 19

Date: 5/9/06

Description: NAPL-B



Photo No. 20

Date: 5/9/06

Description: NAPL-B (135-140')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No. **Date:** 5/9/06 21

Description: NAPL-B (135-140')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No.

Date: 5/8/06

Description: NAPL-C (0-5')



Photo No. 2

Date: 5/8/06

Description: NAPL-C (0-5')





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561683

Project No.

Photo No.

Date: 5/8/06

Description: NAPL-C (5-10')



Photo No. 4

Date: 5/8/06

Description: NAPL-C (5-10')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No.

Date: 5/8/06

Description: NAPL-C (5-10')



Photo No.

Date: 5/8/06

Description: NAPL-C (15-25')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

Date: 5/8/06

Description:

NAPL-C (15-25')



Photo No.

Date: 5/8/06

Description: NAPL-C (15-25')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No. 9

Date: 5/8/06

Description:

NAPL-C (25-35')



Photo No. 10

Date: 5/8/06

Description: NAPL-C (25-35')





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561683

Project No.

Photo No. 11

Date: 5/8/06

Description:

NAPL-C (25-35')



Photo No.

Date: 5/8/06 12

Description: NAPL-C (35-55')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No. 13

Date: 5/8/06

Description: NAPL-C (35-55')

Photo No. 14

Date: 5/8/06

Description: NAPL-C (55-75')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No.

15

Date: 5/8/06

Description: NAPL-C (55-75')



Photo No.

Date: 5/8/06

Description: NAPL-C (75-95')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No.

Date: 5/8/06

Description: NAPL-C (75-95')



Photo No. 18

Date: 5/8/06

Description: NAPL-C (95-115')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Project No. 21561683

Photo No.

Date: 5/8/06

Description:

NAPL-C (95-115')



Photo No. 20

Date: 5/8/06

Description:

NAPL-C (115-135')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No. 21561683

Photo No.

21

Date: 5/8/06

Description:

NAPL-C (115-135')

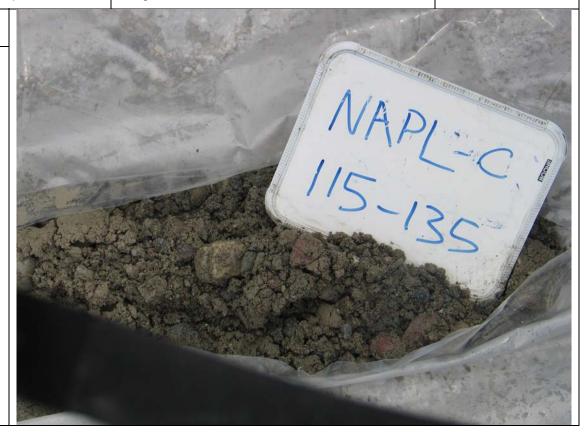


Photo No. 22

Date: 5/8/06

Description:

NAPL-C (135-140')





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561683

Project No.

Photo No. 23

Date: 5/8/06

Description:

NAPL-C (135-140')



Photo No. 24

Date: 5/8/06

Description: Mixing grout at NAPL-C.





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois **Project No.** 21561683

Photo No. 25

Date: 5/8/06

Description:

Cleaning up at NAPL-C.



Photo No. 26

Date: 5/8/06

Description:Cleaning up at NAPL-C.





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561683

Photo No.

Date: 7/26/06

Description: Sonic-5 Bailer coated in D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location:

21561683

Project No.

Photo No. 2

Date:

7/27/06

Description:

Sonic-5 Bailer coated in D-NAPL.





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois Project No.

21561510

Photo No.

1

Date: 5/05/05

Description: SA-Q-3 (0-3')



Photo No.

Date: 5/05/05

Description: SA-Q-3 (3-6')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561510

Photo No.

Date: 5/05/05

Description:

SA-Q-3 (12-13') NAPL present



Photo No.

Date: 5/05/05

Description:

SA-Q-3 (13-16')





Client Name:

Sauget Area 2 Sites Group

Site Location: Sauget, Illinois

Project No. 21561510

Photo No. 5

Date: 5/05/05

Description:

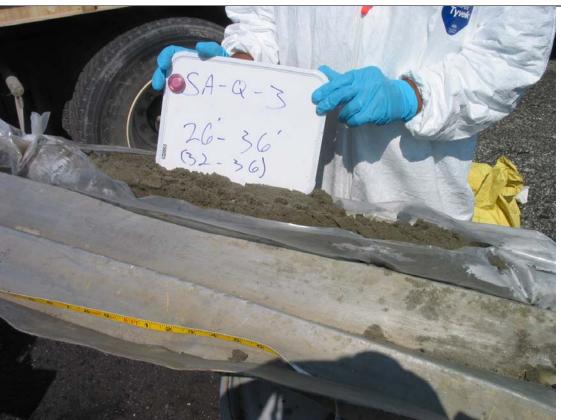
SA-Q-3 (17-22')



Photo No. 6

Date: 5/05/05

Description: SA-Q-3 (26-36')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561510

Photo No. 7

Date: 5/05/05

Description:

SA-Q-3 (36-46')



Photo No. 8

Date: 5/05/05

Description: SA-Q-3 (46-50')





Client Name:

Sauget Area 2 Sites Group

Site Location:

Sauget, Illinois

Project No.

21561510

Photo No.

9

Date: 5/05/05

Description:

SA-Q-3

After well installation



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 1

Date: 7/26/02

Description: Waste-Q-1 (0-7')



Photo No. 2

Date: 7/26/02

Description:

. Waste-Q-1 (7-17')



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 3

Date: 7/26/02

Description: Waste-Q-1 (7-17')



Attachment 1

Photo Log Site S

PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No.

Date: 8/14/02

Description:

Anomaly Trench-S-1 Before

Direction Photo

Taken: North



Photo No.

Date: 8/14/02

Description:

Anomaly Trench-S-1 Before

Direction Photo Taken:

North



PHOTOGRAPHIC LOG

Client Name:

e: Site Location:

Sauget Area 2 Group

Sauget, Illinois

Project No.

21560888

Photo No.

Date: 8/14/02

Description:

Anomaly Trench-S-1



Photo No.

Date: 8/14/02

Description:

Anomaly Trench-S-1



PHOTOGRAPHIC LOG

Client Name:

Site Location: Sauget, Illinois Project No.

Sauget Area 2 Group

Date: 8/14/02

21560888

Description:

Photo No.

Anomaly Trench-S-1



Photo No.

Date: 8/14/02

Description:

Anomaly Trench-S-1



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No.

Date: 8/14/02

Description:

Anomaly Trench-S-1



Photo No.

Date: 8/14/02

Description:

Anomaly Trench-S-1



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 9

Date: 8/14/02

Description:Anomaly Trench-S-1



Photo No. 10

Date: 8/14/02

Description:Anomaly Trench-S-1



PHOTOGRAPHIC LOG

Project No.

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois 21560888

Photo No. 11

Date: 8/14/02

Description:Anomaly Trench-S-1



Photo No.

12

Date: 8/14/02

Description: AT-S-1 After

Direction Photo Taken:

East



Photo No. 13

Date: 8/14/02

Description: Anomaly Trench-S-1 After

Direction Photo

Taken: East



PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No.

Date: 6/14/02

Description: Boundary Trench-S-2 Before

Direction Photo

Taken: South



Photo No.

2

Date: 6/14/02

Description:Boundary Trench-S-2



URS

PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Sauget, Illinois

Project No.

21560888

Photo No. 3

Date: 6/14/02

Description:Boundary Trench-S-2



Photo No.

4

Date: 6/14/02

Description:

Boundary Trench-S-2



URS

PHOTOGRAPHIC LOG

Client Name:

Sauget Area 2 Group

Site Location:

Project No.

Photo No.

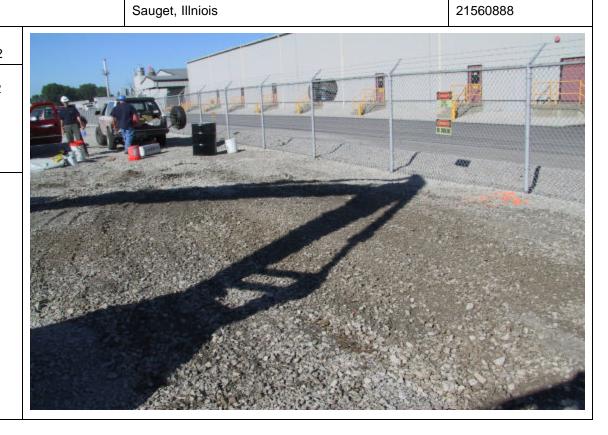
Date: 6/14/02

Description:

Boundary Trench-S-2 After

Direction Photo Taken:

South





Attachment 2

Field Notes Site P

100 gm.11 6700 Arrived our site, Stem bed site safety nating. ono Mit to sik so P to And Inach locations of Sture Gard loading backhoc to mob to Site P. 0750 Calibrate egippuet muttollar. CAM- person (6m- 4,5000-0 LEL-02-20-9 45 5-25 CO-50 15/-50 02-20.5 0810 EMA having trouble y low boy + Atlanding backhoe. Waiting on new New truck arrives. bullhol unlanded @ Sit of D V145 Setting polocation. John B. , both comfortable anomali was down Begin Frenching AT-P-1
0-4-9 lack circles y large quant d jelear + concrete At ~ Zo' leep, concrete, cubbe transport to sies drum, As soon as Geory placed to

1-25-05 0440 Arrivedon-site, loading equipment Calibrating equipment PID 0-0.2 com 10 1. 20.9 100-101 Deadle - 70 g S-nn 54/26 PPE-level-Maditicals Perconne-Bit. sins, Kowns-ins Emit-Andylameron, BedHicks, Alvin, Leo atzmHill - Claire Morris 0700 Hi Soneeting. 0730 Mobs. 45 Site P. 0740 Sthrep & AT-PLY setting per lesion zone ONAT-P-4 Photo 49-AT-Q-P-4-Bylon 6755 Began Friedry AT-P-4 - Trends runs N/5 - Grean Herely 20' No stelled location In 1st 10' of N Zo'seitur, encountent, By 43 drum lids Photo-5D-Dyn lid 51-3-5 sal metal pail collo Preparing to colle 1 2 55, stage sample -Cyross centumination sample) from 25'

5-25-05 835 Colleter AT-P-4-5B-7 from backet for Vox s, succes, had cale, metals, emmines PCBs, Pasticides & TCL Panelysis, Dioxin Thick from ligid dippin form bucket - collected in goal Head Sec - 45 pp. 0850 Collected AT-P-4- MAPL - 005 x5/2 to collet - 1/3 of 1 VON VK - 20 preservet we Analyse chemical foots in Moto# 52-R. do mituro 658 sa 53 - Roy of possible NAPL 51 - but of hence 55 - Monkith soft report 50 - "Sod um acitate 57 - 10 rum Lid 0920 at beginning of trench, depth of 6 find a newspaper with 4/22/83 dato also find Monsanto & Deserry -104 185-145 and sio, near prist and Photo 58 - Queen invostigat a regard 59 - Monsada-Job (1851) to grays, Photo (00 - Spoils), le

SH

5-25-08 1125 /r of drawy white golid material inside - PIDSpike - 220ppm Photo to 75 - Drun y white must The - preced dra 1135 Lig. d slowing it hends from 1145 At 240 in length, ~ 21 in death Photo 77 - Bho mile drong tobing & photic 78 - Brown recin years in drun Waste - 0-17 1200 Dunch 300 Byan backfilling Finished backfilling - a slight mound present. - Philo # 75 Decorred purp 1000 Buck & Louter Inloading of 1030 Luf ste

5-26-05

2

our Arrived on six local as your
Call hicked og ignat
100-6 (cm 016 m)
100-104 0 209.
Ultramu 0 - 0 198 24 vac
PID 100-100 49 209
0700 H+S morting
2735 Mobbing to next location-APP-P-2
PR-Malitied V
Westler- 60.2, Overcast
Personell-BIAISSMS, ROWINSO-JRS
EMA- and amon B-d Hicks Alum Les
CATIMITA 11- C. Morriss
Ung Field And + C Johnson, A. Turnell
0745 ATunello C Johnson on site for field and it
Setting up crelision your @ ANT P2
At IP 2 runs easthurst, stoked location is
Centust Avench.
6805 Began tenching Wand - 20 Wy State
That # 86. Piece of metal 55 sal dam (Fiber)
8 D - 30 pm
Enouth Sharum 18
Encourse - Monsaity shop draw no
TAINIO'CO Way feel Stight
8 Res

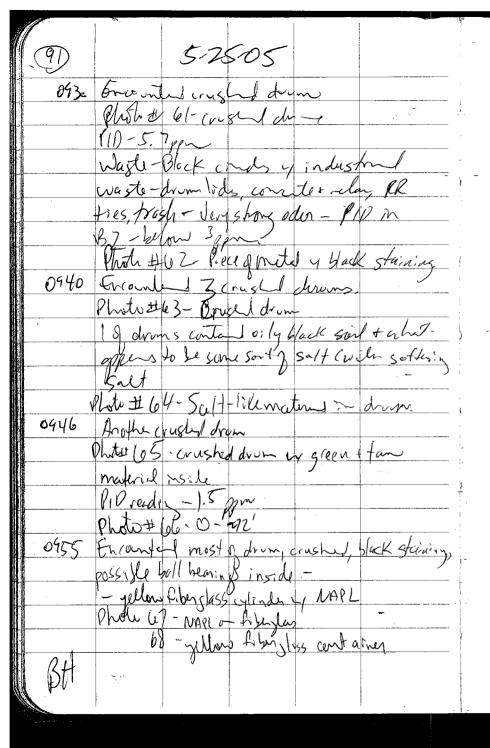


Photo 69- Crushed drum 1000 lsf zo section of head (N) 7 Waste - O- 17' At 17' Sand day Extending teach so the for full 40 will be deble to bother sep it me are completelant 1 us ste Photo & 70 - Philed sta tricker in from wasterclay whereace Encountered constituted du Photo #7/ - Crusiful dum 72-0:1 container Crust ed crum - PID reading - 5.5 pp. Photo # 73- Crushed drum Encounted do mail x compakes Rite names. 1983 100 Erouter = 1:ghtly count of dr on , PVD - 5 gom Phate 47 74 Dram. Mital dryms all BH all Std D- 15 Husgeren-May 10, 83 MU Drem remal, box of socus y Monsonte

5-25-05

5-26-05 15-26-05 Finished trenching Phit 110 + 47 - P-4 - 21 Gen Phit - 109 - TD, total length. Herdspace-O.O.V. V630 moss Lac (2 foc.) - in/acding 1330 Bean bulling 1500 Preparing to collet suface sight @ AT-P-4 - Will collid adjacit to area 15/5 Collecter AT-P-4-855-0.5 + AT-P-4-55-0.5-M5 - AT-P-4-55-05-M5D w fromel for vecs, suces, herbicides, metils stamming. Finished bekfilling ATIPZ MMIlier picked up from Used to saple AT- Per-55-05-WIN 36 doc field back in trowel Herdspace - 0.2 pm (160) Collected AT-P-4-55-0,5'-KB for vocs, svocs, herbicide, netals, andmonis PCBs, a Resticide, Hedgare Blt 1555 Preparing Le collect sortace sample C AT-P-Z= will dollect single adject the location of SB sangle - 30' E of wedge 1600 Collected AT-P-2-95-0.5' + AT-P-2-55-05'D of trowel for voes suces, horbicides, metal, + immonic,

Location Sanget, &L	Date 05/26/05
Project / Client SA2	SZ

1440 Finish Juludy	3 polver
1445 Mob to Amenin	Bottoms to let
Prosonie into sile	
1500 Mos to STE P	to trave
Shouls with Brance),'
1530 Meb to 5The 12	to get
Tranching pre	w ice
15 35 Rum to sole	P In Trail
1540 Reform to 5,40 8	Z to parten
End Blank	70
THE DE	1.85-0.5-FB
7600 Smple AT-P-6) 1 (5/.0/
1645 Statt meeting le	1 2 1 Jan 4
regardy tield	4001
1700 Lane 5, te	

Arrive on site for the day 0605 Safety meeting 0700 Wait for Oiling to show up to pick 0710 up the airline tanks they dropped off the other day. oilind arrives. Lead Oilind to AA-Clay-2 0720 to pick up tanks. Head to Q. South to mark UAA-10 0740 off set from the property E of the level to the W side of the level staying as close to the lever as possible (Andrea is making calls to find out how close we can get). UAA-10 marked ~410 ft W of its 0755 original planned location. Take supplies to Kurt & Brandi at 0800 AT-P-2 Head back to Q-South to check on 0815 clearing crew (supposed to be brush hogging areas cleared yesterday.) Clearing not at Q-South yet. Bobcat 0830 Still dressing up the trench location on the barge ramp in Q- Central.

Location Sanget, 16 Date 5-26-05 Project / Client _____

0930 Clearing crew arrives at Q-South with brush hog to finish cleaning new trench locations around AT-Q-35 and AT-Q-33. 1100 clearing crew finished in Q-south. They are heading back to the trench on the loarge ramp to see if more rock arrived for them to finish dressing it up. 1105 Check on Justin and Brian and the profiling crew at UAA-10. 1135 Back at trailer. 1200 LUNCH 1215 Help Andrea around trailer/pole barn 1330 Run errands for Andrea. 1440 Return to trailer/pole barn and unload. 1445 Talk to Jack & Kevin Send them home for the day 1450 Head to American Bottoms to get the gate unlocked for Adam (Prosonic) so they can finish SA-5-1. 1500 neet Brandi & Kurt at AT-P-4 and wait for them to finish gathering a surface sample.

1545 Head back to polebarn to perform

the field blank sampling on the trowel used by Brandi and Kurt.

1625 Finished performing field blank sampling on the trowel used for the surface sample at AT-P-4

1640 Meeting about the results of the field audit performed today on site.

1700 Leave site for the day.

Project/Client 5A-2

ocoo Arrive on site for the day.

00000 Arrive on site for the day. 0710 Safety meeting 0715 Small URS meeting in trailer with regarding Andrea's and Brian's absence today due to their mem's death, and how we are going to cover the day-to-day stuff. 0725 Wait for Walter (STL) to come to pick up sample coolers. 0730 Walter arrives to sign the COCs and pick up the sample coolers from yesterday. 0755 Copies of COCs taxed to Craig Johnson in the URS-Omaha office. 0800 FedEx arrived for drop off / pickup. Took care of labels, etc. to get everyone started this morning. 0820 Head to site O with clearing crew to clear Sal-0-4. 0835 Head SA to SA-Q-5 with Adam (Prosonic) because the well pipe at was observed to be broken/bent at the ground Surface. (Observed by Adam) 0855 Observation of SA-Q-5 with a water level indicator showed the well depth to be

JU)

trush tires Photo #41-0-4'50 8and - Photo 42 Photo # 74- grey sand. Total fight & depth - 6-7'Sy Total ligh @ Surface - 1/5" by 1055 Finishoftends, Loan back. 11ing 1230 Photo # 45 - AT-P-4-Pork given mater of 46-AT-P-4-Setting for TT-0-33-SE1. 1345 Bepartending TT-Q-B3-SEI-50 han both AT-Q-33 step. ats-Thous 10 5 and 1. At ~0.5 bys, encountered from s: 1/ -7 Photo - 1 49- Spois pile Unstr-05-12 by, at =12 by - som situation unstr At 218' kgs, say sand

(o-1-05 1415 + 10 - 20'by - in - 2's reg sand. Total lenth odgth - 28 bp 205-12'by- nown 5111 yweste At -18 - gray sund in sill little waste, Finished frencho began back tillia 1440 BHS AS Shop to Carry & to look a temorrous Ladin 100ctions - 147-6-29 147-8230 Spoke of flan of Col Maring gon to my down - ok we french & ATO - 2 9 Jonneyor 1450 Finished book Hing french (510 Ht triller, enloading ag inset discussing formanents ofer.

Stop A Work to got key for Lot F 1020 Get Key Soon B Hiller 1030 Mos to Lot F 1050 Loak 10 MPm GM-3/ A, B, EC and GM-59. GM-31 wells have combo lock with code 19144 6M 59 may be in but amy by drun or with 31 cluster we think They the corner well, Leck is rester Loute GM -8. Look appurs rested W55 GM-31A,B, RL, GM, 59, ~ GM-8 one all in the Down confirmat lot of Lot F Mob to lot F 100 Laute GM-18 A&B : No like 110 Locate GM-58 (myles) to help contre,

6M - 59 look

Look MW-BB and C

Spry w constany

1114

1116

1119

773

Lowk GM - 7: 1944 lock

1 me GM-5 and May 5 Bas C

MPM

Lowe MW-7B&C 78 his n 1944

lack. 70 has no lock, blands prount

Musher looks on all 3. No Kay

Location Sough &L Date 06/03/05 121 Project / Client ___ SA 2 SP

Mw 338 C have of men Moster lists No key at print 1125 leake GM-3 No Lock, 6.1 it has a menthody box 1128 Leade GM-4, AB&C: 1944 locks on all 3 yells 1131 Louk GM-17 AB, & C: 1944 locks on all 3 nells 1133 Louk TRA3-PEB : No locks 1130 Lank GM GA&B, GA his no lock 6 M & B hm, a 19414 lock 1139 Look Piez-6: No lock 1145 Lens 1 + P 114.6 Louk GM 2 : No led, 61 :1 has a monday by 114/8 Look ara for GM -33 1105 Drop of Lot F Rey 1200 Stop at AT-P-2 to class Dirt work. PID reading 0.0 ppm 1205 Stop at AT-P-4 to check dot Well, PRD radings O.B in SU coner, otherwise 0.0 ppm. 1210 Check in with 5 short of of railer MPM

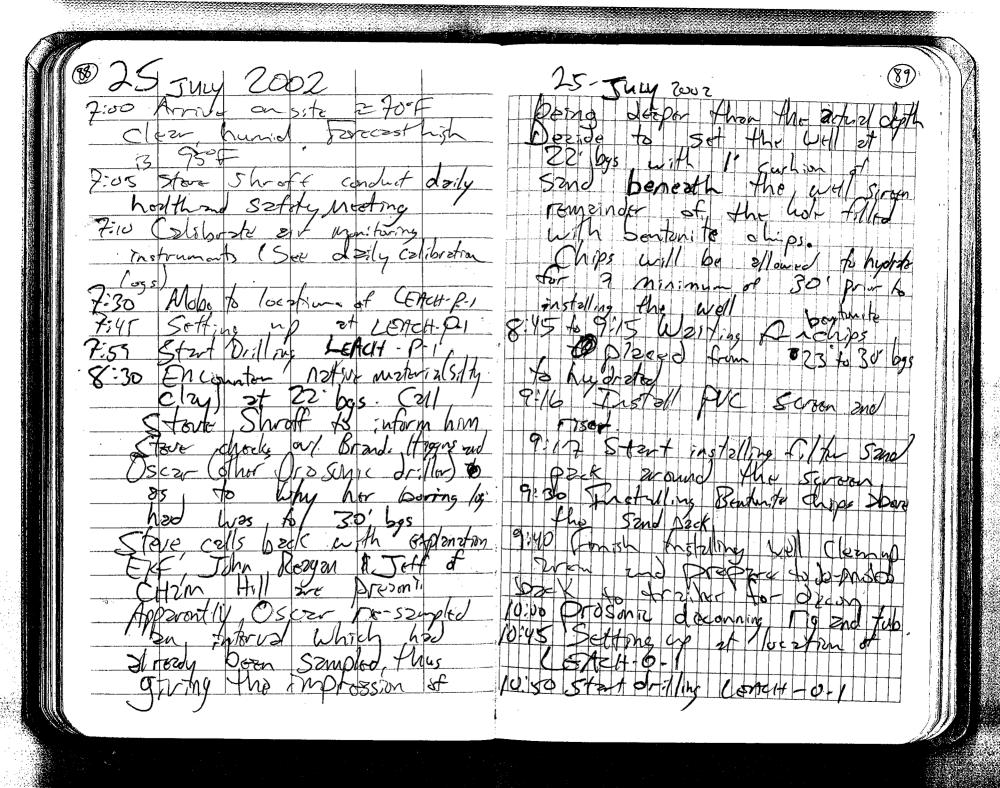
Steve. Miscellaneous work.

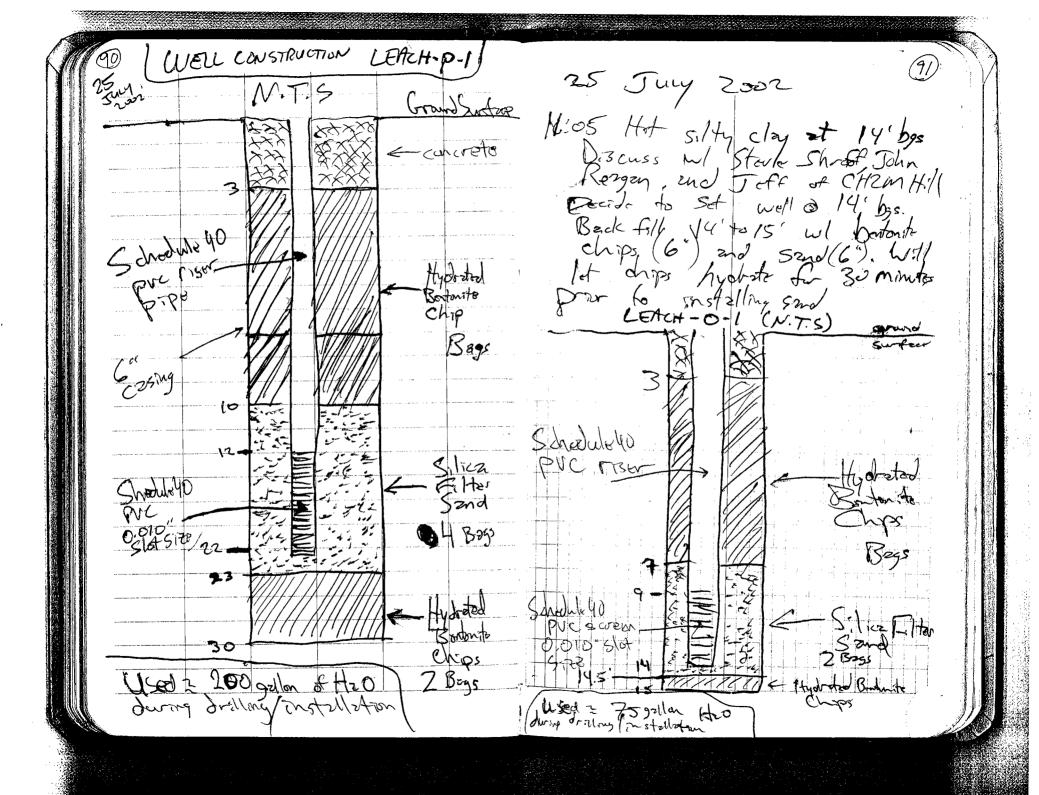
Leave site for the day.

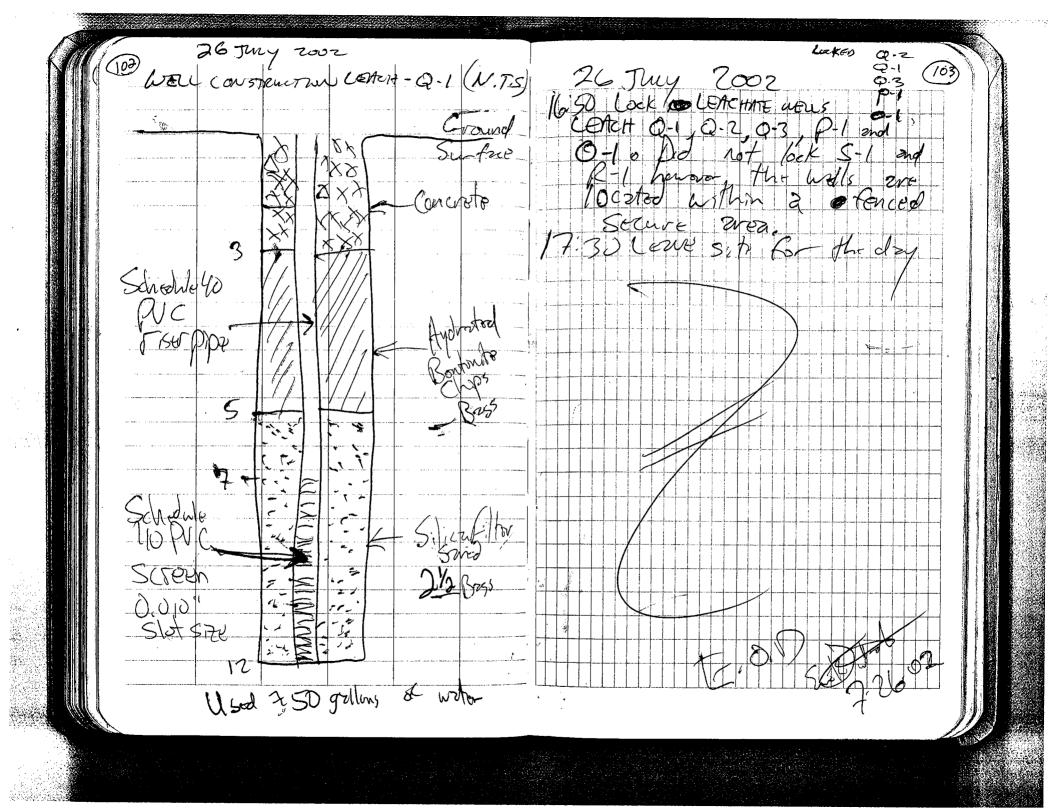
1600

Location Sauget.	1L	Date 6-3-05	
Project / ClientSA	1-2		

0605	s Arrive on site Timesheet and	مئے ۔
	miscellaneous duties around trailer	1
	pole burn	1
0706	Safety meeting	
1 !		
0110	Load up for the day, Wait for	
	Walter (STL) to pick up sample	
	coolers from yesterday Miscellaneon	15
	duties around trailer/ pole barn.	
0730	Walter arrives and picks up sample	
	coolers from yesterday and signs	
	Locs.	
0735	Fax COCs to Craig Johnson CURS-Omaho	
	Miscellaneous paper small ting in	
	trailer.	
0745	Begin locating previous wells again.	
	See Mike Miller's (URS) field book fo	_
	location and access notes.	-
6930	Check on clearing crew dressing up	
	trenches in Q-south with addition	
_	dist while locating previous wells.	
 	Trenches so far (AT-12-35) look good	
-	the exposed debris is covered.	
1330	Lunch and various office duties	
	4 7 7	

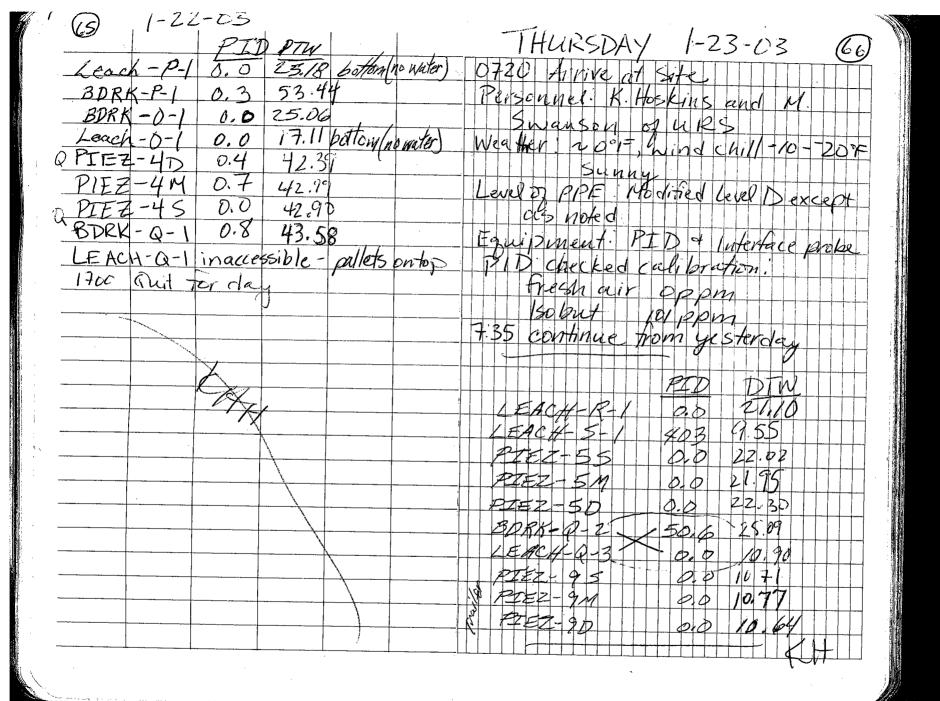


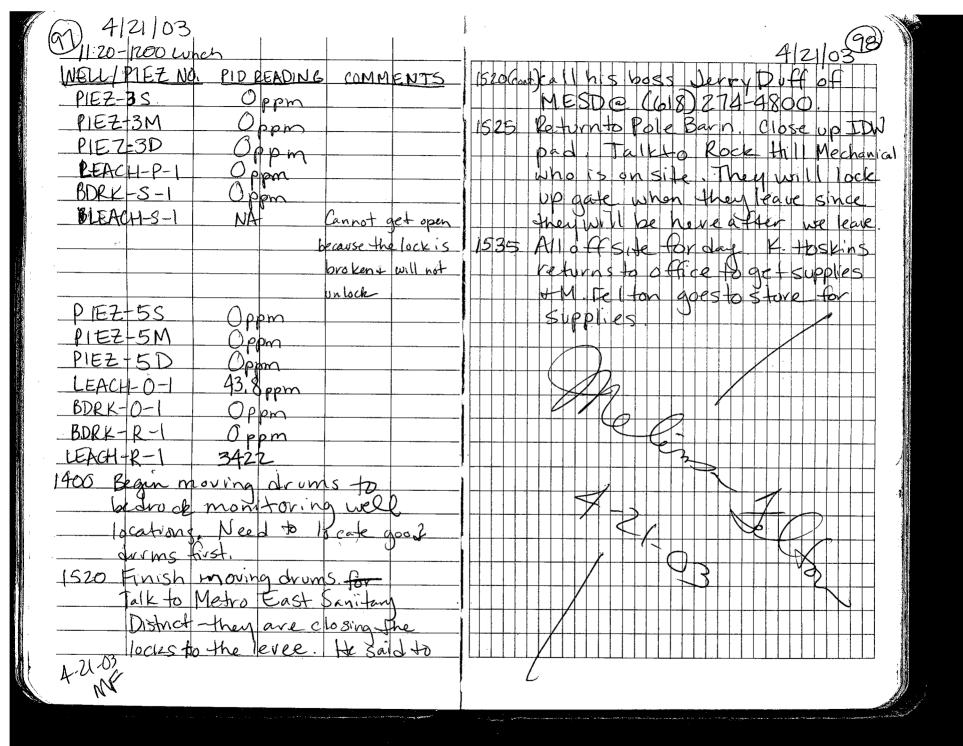


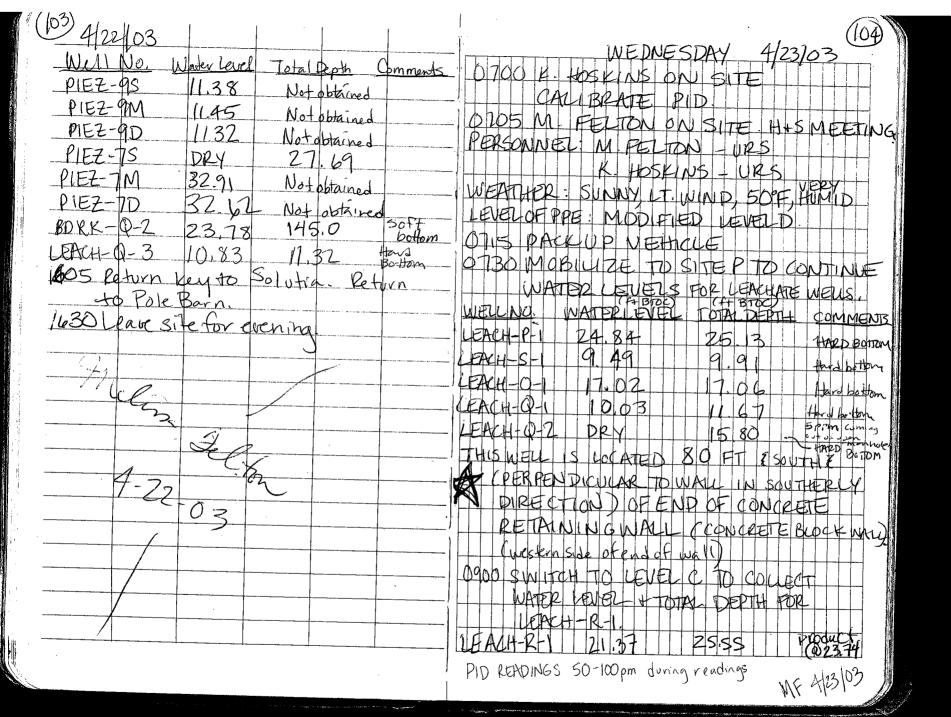


Projects (continued)	0200 Arrive on site, where held site
	sold meeting 80s Duercast.
	0705 Rosail Calibrale Peguinners
	RAM - 4 no ed
	C6M-450 C0-0 (660 2)-209
	A 5-75 CO-50 CGL-50
	6730 Began tak on well caps of all
	leachald + bedrout mentaring colls.
	0900 Ainst of spen of all wells
	interfecce probe,
	0920 NA BIRK-P-1
	Dia TA
	BORK-P-1 15.86 159.86 Syt 340 Clark-0-1 Orn 25.50 do 2007
	0451 Lead 8 Todayt - 1508 1509 1735 Mardodor
	1000 beach 3846 6 Prose -946 957 (038 had alm-
••••	100 holk 1000 1881 1841 500 1
	WI DDUK - 0 + 1 May 850 (0.)/
	450 leath Q-3 dry 11.79
	7055 BDRKA - 2 Print 8.48 19.485 1.45.41 Sept
	123 learn Q-1 from 11.15 11/6 120 73 adaylar
	430 BORRE Q-1 3612 3612 16185 Soft

423-02 AMBON Z Rainin 1700 0930 24 166.30 25.12 38.47 78.34 31.3 24.82 Piez-3 27.91 hard 27.87 hard W 5077 Pie2-2 20 hand 77.5 30.31 137.00 23.1 79.5 1/5 3977 3077 31.26 31.37 30PH 128.75 Soft 164.57 39,23 BORK. 7.06 (p) Leach hard Soft 9.51 leach 9 91 24.90 50 -5 riezb .58 69 16 17.06 108.52 1 27.11 176 9 D107-8 \$ (495 6 d 7







Pichwell no MSwemson-URS Filled w sed man theman Wasps To protestive 100-100 0730 Began apening all wells & prezonation WEIL/PIEZ DON P10 2.0 Comments No lock BAKLED O-1 Picz 9-5 Picz 9-M No lock 0.0 · Piez-4-5 0.0 Picz-4-m 0.2 Piez-4-D 0.3 Leach- Q 3 BORK-Q-1 Cut lock of BORK-0-2 00 Kez-1-5 0 · Piez-1-M 0 Piez-1-D \mathcal{O} K12-2-5 0 11028-5 Viez-2-M 0 Riez8-M Picz-8-D · 8-62-2-D Kez-3-5 0 Zunch Piez-3-B) At Solution getting but I be O Turning in Ken to Sollution Piez-3-D

69-03 Piezwell No. Rez-2-5 Piez-2-M Rez-3-5 Rez-3-M Piez-3 D Leach-P-1 Vez-5-M D: 1

Weather 9015 Smy N) RPEMIDIPULA 6-05 aby Horived mosit, lading en ignest. Calibraty instruments 0 0 0 209 PID 0-0 Multiral 100-100 Utorne D-O 100-100 5700 H.S meting 0720 Waiting on law boy to more excavator to 0800 Constay on-sit, moving Golf yearentas 0840 5 Shall some is ok) to Fart - CH2MHill is running step-out plan pladder to EPA, bet Clair Morris and she dres not think there should be any issues of step-out plan 0500 Byon dearing wound north sty out -TT-P-2-N1 1/2 #9- TFP- 2-NI-Before on PIV whorken present recall hit in 1000 Deep tourting T-P- 2-NI-Step-out logation 50' Ny ATP2 - beginning @ Stale (50' N) & Otranhing to the auth. 1005 Encountered possible file doub, crystal y Mongala - Formuldeligh (Flake) PID-30 pp

Philip 10 - Monsely Filed ... O- W- brown s. H + constaction desn A-1 24 yes encounted indestrel wester Most (red, file dums - 4, Varce cinders Photo w. 7 - c. be down w lid 100 Shongdo Kon trall , Spo: 1/5 p. /e Pholi # 13- P. - I'd metal 14 - Pice 4 F. Leidnem ajahte mak 1020 Excounted Piter dura colon & possoles 1/16 Silstone - PID + 32 ppm From Monsoil Shan dunt 1022 - More rieces of Fradring motes -d +d x30 + Photo # 17 1025 Peces A Sign drum Vido 1030 Pice a Gredon - hose trash inside Phil 4 17 - Possible part can 1032 Mold Container - MEK" - Flammach log label-photo 1/9

6-6-05

6-6-05 And 20-Pill Affer dren for maledy de U. bel. - More Air dring - crustes Photo #21-Film drum y fibrous moterial inside - "Monsanti" label Poison - tel net contain y "gosm" label. 1046 \$\$ ~ 15 550 Photo # 22- 0-75 -723-55- 21 milldun 1:do - P10-37ppm Photo # 23- Stack of lids Photo 4 24-Possible 5-10 gal mites drim -P10-40ppm Piece of file dram 160 Ground soil - reddigh yellow soil -Cite drum y yellow on viells - wet Photo Z5- heldish yellow motion 26 - yell or povolimatand on dum. 1105 Fingh - TT - TD - 20.5 gg Total length @ depth - 256'68' Total lenths sifes - 20' hour Encount GWC - ZO'Sy. - We will sty-out 50" more flut per Blook bux filling

16-le-0\$ PLTL # 27- 77-P-2-ND 1325 Refriction TI-P-Z-NZ-50' N & 1st step-out - will from South from Staked location. B30 Began trenching Encountered wests @ ~ 3 Ggs -Black cinders of plast wood, and Sound Phate 28 - Files dry my of placks - Fire dring crusted -Photo 29-+0-51 Photo 30 - Bod of Monsanto Pendolonghand - Fiber dum, bay Phili 30-0-8' by 1350 Encanted 5-yal mitted partocaled PID-70 your - 4 some to sort sorte Photo #31 Mela pail

pagading to hearl C - BZ new sports

6605 Calibrating Pip 1430 Continued Hrenching Photo > 2-Eyl Pitche "Zici. Photo # 33 - Mile Cham I'd 1436 Photo \$37-0-10- 60 - Encountered Taylor Chemical Co" layed 1442 Papalas - label Ben zoic Acid Ehrand - yellow pouder like schotunce Philip 38 Yellow mater I Photo # 39 -0,50H 0-15' bgs 1500 TD- 215'65) + inisted touch Totallen the Lepth-15' e sutère - 201 Per SSnA, finished, bench-seeing file dryns in a most every baked + In 2-3, ancountryllow on Tite powder like s Stance Will step at 2 50' more feel to north 1505 Began backfilling. 1530 Finished buttelling 100 mg al

0645 Arrived on sit, landing PIP 0 - 0 MJH/-V/tou 500 - 0 - 0 100-100-100 0706 445 meeting Weitler-8815, Inn Personnel-BITKS,775, K Quings-CRS EMA-Bra Corneror, Bed Hels, Mingles CHam/t:11 - Clair Moiss, Emily 5730 5 Shry net (Maris La discus) Step acts in Step - decided mit to go hather norther sky outs -Ho Riberdrams do not regreser a "post ple threis". 9815 Mossy 40 5 AP 20 Setting on TT- 0 77-P-2-5/ \$0' \$ of AT-P-2- Excaveter Clearing onea-Widsfurt Leading 50' S Q AT-P-2 4 Folial South. 25 Bys Byan ten Chin, TTI-P-2-51

6-7-05

1-7-05 6-7-05 Phili#42-17-P-2-51-0-3 Photo # 43 Piece of motal

850 At 26 bys, 55 get met odnim, crushed,

most of drum-Newspaper check to t - 19703?? Photo # 44- Drum 0-4- Brown Silt y black Condus AV-4'- Wost - wood, trash, - min repulseste Photo# 45- Marsate premark Philu # 46 - 0 - 40' 655 8900 Encanted Crush , rusted metal down - 500y plastic. Mordanso-Sultonamide formaldable het # 48- Crushedown 25-30 gal 10-202 gm Odrin Photo #49- Drum I'd Piece of file drum 1:d 0907 +5-jul metil entainer - cr-st 1labeled 'Shell" Phile \$50 - Mits containing 0910 - Budlet ywhite make it Photo #51- white mile

ogiu - F. der dur v. wh. tepowder 5.65 Photo + 52 - F. Lendo ~ (1 white 0917 - Pare Less Malic Anhydr: A" 0919 - Piece of ficen down 0120 Enousing GWE 2/8-20 695. Photh # 53- GW @ -10 20 on West he errounded in hers s not a clear to in on yes Ino approach. Will depart an addition 940 Bean back 4/1:24 1010 Finish Souton cleans red location Kethe south 77-R2-S2-50'50-44 2 50-TU elge of 17-PD-Si Will Den And Othis point going south 1050 Seth up enclus en your ? 77-72-52 Ben Fending

6-7-05 1045 At 4' hs encounter 2 down remnato - 7 great the 50% -+ 2 whole dryng, 1-fregness. -5 pieces Label, 2 y light deaking and Olisto 54 - Wolodnin, Crush J. Wackstaining 56 - Drum Cenni 58 : Dramfrag J. PID-10 ggm on Z picces, Zleaki-liquid - 0-3 ps-Bonn silt 1 black cinders At 13'- Ekounter mesto - drinis i drine 1650 Spoke Shroff - 40 Said 40 Stop Kanking - a this last ion seport igin, Enry S discussing the truly Clair. Clair oll 1 skpout. Bya buck 1/2 130 Joseph La Calla 1231 (lear mane for and sky ont TT-P-Z-53 - will state 50' South of Souther ede y +T-P-Z-52-1+2 JO SOUTH

Setting cy exclusion zone @ Real Frending, Pra S3-Cefre - Encount M.S. A.S. ch. m. (ids. Photo # 60-11 do - Fixedan 1310 Enounderfrished austral 35 cel de m-sont ZIOWN SIH INSIDE - PIDE OPPIN Phite + 61- Coush John 1314-2 aron remonds - P/P-O Pholo# Co2-2 remais for -6-0 bys. 1318 - Floor drany profle in it. PID-8Copps Pholotte3-Frenchon 1322 - Engularity most of 55 july of dry ex clack string of some ligard looking on. Do Ako ~ Dell in I containe photo 64= 4 165 - Leta - 90: 1 UC - mall contains proper ctaring isplud contents 810-014 down

10705

6-705 Photos 67- metal pail PID-0 Crushed diem iflack staining y Hack Shoto # 18 - (vish I down 35 Pm SSIMAD She Lech @ 50th, Legan lackfilling, 1345 S. Smith on-site discussing Ste Pin S Short - Leide to stop Stepping - out + concell couth of this are is somitan To what we have seen in fest penche - Will Alale to Coly MHIV about this 5 cl at trailer 1530 Conten and y Clar - will sel up call y SAJSE + EIRTEPA. 1615 Just sile

0650 Kroved M-Six Jadin & Calibrated in Skromasted Plb 0 -0 00 0 120 1844 Ultraver 0 6 50 25 44 125 100-100 49 204 80 20.9 0700 H+ 5 macking. Sentler-Rainning, 80s RE-Modified D. Personnel-Bitig ~ 5. Kaings-URS EMH-And Cameran, Bid Holls Munited CH, MIH, W. Emily, Clair Morois 070 Wait, on low bay to more executor to Q Cantral - AT-Q D 0000 Cowley on 5. To mown excavators 0865 Examples moved rom instrum on s. fe, Ca (. Araking. 01/5 Mobs + to AT-Q-22. 9935 Cetting - plexelsion zore AT-0:22. 950 Begen harding AT-0-22-4 runs E/W - Start 1 + 5'S of Start laction of trending to East Photo #71 - Off Cot.

1-805



Attachment 2

Field Notes Site Q

5-5-05 Clade on vtility issues m site O. 1600 Colleter 19T- Q-28-55-1.5 for Vas, surs, herbicides, metals, aminonia, PCBs, Pestiden & dioxin (Excasety Suggest on 21.5" of rock) Hadspace - 1,5'Sagle - Oppm 1630 Finishing grade @ AT. a. 28 4 pobeat sing exempter a AT-Q. 27 to congrect sail -Still very soft- Kept location blocked off overyth Phole 1 25- Fraislas grade. 47-0-20. Mos & fruiter to rack cooley Colored equipments 1750 1810

acto Harves ens. Padling agripme 886- Mudi Cid D Brychmill BANGES UKS Kours UKS Emb crew CEZMHIV Quis CUT 0454 (18 304 17) (6 m) 10 0-8 (6m-6,556,25 100-101 200-100 50 10740 Maybon to next location - ATO 29. 100-101 0750 Sott com an 05-0 29, sold in 10 0 th 2 cl. s.a. zone. 12 1/2 Before Coco Serespor in the Box for grite Begon worth sestion and & morled

5-6-05

56-05 5-6-05 due to large pioces of metal (base 8700 Encentral bottom of dram & Br Did a readspace recting of this operations). 0876 Begon township AT-Q-29 at 30 (2)5 / Gg S & 9 10 / from listern end Eastern and of Franch) - 18 pp 0.3 - (ms reck At - 3' bgs = black sill of waskaction without Will keep & wister son zer introve trending. brick concrete Photo #7 - 1765 At ~5' bs - black gelt of some gray clay as " 119/0 Mustic, Ixtilis, gieres o metal, Collected DT-12-29-B 6 / fro 8 past of wishen edge ky pe 11 3 - Matel Freces idilleden soria from 5° c lat to be andyzed for vers sucs, he. > . . des " & - Downlid °EH Collected If T-Q-29-53-6' Ms/msp 0835 Encantered metal drum lick-Continued Hird 0840 Collected waste good form just below Hendspace pending of 6's get 4. Tam Blitish where lod was folled - 8 bys - 2 0953 Operator has stocked trend length & that he count get any diegen & eastern cde - are will with high in the on 8-10 wist 10 from easter end of french. Collected HT-Q-129-WS-81/01 Does, suchs, harficiale, mitale, compria, froxing of TCE Panalysis TID 1 2' Day west a justin color owned benchung 122'-Will Jung to get a kend Let Ohilod Co-possible retailer stor @ 12-15 Grounder drum id or manhele core 6250 Herasyura 8' sample 7 18.7 pp.m

Crush of drum - from very Wadys 1355 Collected AT-O-DE-WS-16 Jonwill discard waste sangle from this morning. Hadspace of soll from orum -535 Encort a smill piece of drum fill of w or and orange paint Blow #H Drum y dived paint 1409 Grant anterdring le Wend of french Photo Ht 15 - Drun 1:d Also possible yellow paint in spoils Bill I on excavation bucket 1415 Bottom on top Adul up oney part + a 4. boas months. I Preto 16 - Dremy part 1430 Another drum crushed. Phalo # 18 - p. a. 1445 A) 120' dep of Joslevn elge g french, Camos go any deeper, 500 in wiste. Tuk to Claire - She state ~

5-6-05

BH

5-6-05 need to diffrent depth of waster extend tiench. 1500 SShish moite discussion situation, Eag CMM Ane needs to brill a bigget Execution out soon to burge adin ties soon - 2nd helf of French, Still in weste @ 1500 Egle Marre weeds to Begin backlilling existing French. Going to come back to this trengh atta later timeny 6999628 a bigger excavator to delineate depth 228840500 Patient extent of french, GPS acordinates & tender of trends -Starting Point for filing French loc 6 Ango & handed back of hander to inland egginnit, jack singles. & Chings wood chin Emploren Hinish 1630 Finished backlelling 1200 Jet 276

PPF-Modiked & 5-9-05 Obili Arrived on sit, loading equipment Pii) 0-103 (6m00 54/25) 0700 Held KII Smeeting 0730 Messing to AT-Q-25 Photo#1-AT-0-25-Before Setting up exclusion zone. 1 Side. Sixp) rock + segrent, it to 5815 Began Leveling Frenchoung Flu start don most 20 047 Linstock A+ 12 bys - dell silf/condus y concrete, 1heto # 72 - 44 695 0826 Encountered 1/3 of dram, Krustel, FILL 1 tan sity day. (11) - 12 D po-Spoke y Steve- he said to collect soil from around drum not what is in the down - Clare enders Japan to lead C to Cellat sincle ? Note \$ 3 - Prum 0855 Collected wask screle + AT-0-25-45-9 for vocs, svocs, norbicition, metals, PCPs

Weater Overcast, 70'5

trush tires Photo #41-0-4'50 8and - Photo 42 Photo # 74- grey sand. Total fight & depth - 6-7'Sy Total ligh @ Surface - 1/5" by 1055 Finishoftends, Loan back. 11ing 1230 Photo # 45 - AT-P-4-Pork given mater of 46-AT-P-4-Setting for TT-0-33-SE1. 1345 Bepartending TT-Q-B3-SEI-50 han both AT-Q-33 step. ats-Thous 10 5 and 1. At ~0.5 bys, encountered from s: 1/ -7 Photo - 1 49- Spois pile Unstr-05-12 by, at =12 by - som situation unstr At 218' kgs, say sand

(o-1-0\$ 1415 + 10 - 20'by - in - 2's reg sand. Total lenth odgth - 28 bp 205-12'by- nown 5111 yweste At -18 - gray sund in sill little waste, Finished frencho began back tillia 1440 BHS AS Shop to Carry & to look a temorrous Ladin 100ctions - 147-6-29 147-8230 Spoke of flan of Col Maring gon to my down - ok we french & ATO - 2 9 Jonneyor 1450 Finished book Hing french (510 Ht triller, enloading ag inset discussing formanents ofer.

1,-2-05 0640 Arrived on-site, loading equipment. Calibrating instruments PID OLO MUHIVAR 010 100-96 0 20.9 Vac-0 Ultrala D-0 70-1 VX-95 PID 100-115 Mitrine BH 5000 H&S meeting 6800 Mobbing to Southern Q - AT-Q-29. PPE-Maditied 1) Westley-80s, Overcast Personnel-BHSons, KOwings - URS EMH-Andy Cameron, Bud Hocks, Alvin, Las CH2M/hill-Enily Clair Morris **08**05 Setting of exclusion your co AT-Q-Z9will start a center of previous 1/8th french baced on 6PS coordinater (See Jage 36-41). Will die Land lingth - 120 bys, will use Volvo excavator to jet al deip as possible Cours able to get to 21,5' the 1st time), then the long-stick to get through wask. We have weedy submitted the subscribed waste samples.

W. M only wellest samples if get 0840 pyan treding AT-0-29-byon @ "duty", tracking west, -ds my V/10 la excavite 0-20-and not have already executive mer. AI ~ C.S' brown of H w waster 300 Prote #50 -0- - 20-22 Switch to long 5x dt - Nolco as de a as possible. 1836 Enouted grey S/1 @ Photo # 32 - gray 5,17 Met #33-70-27 655 Waster 0-122-23-2465 6-my wets 10 2 2 - 23 1000 Finshed trends Total length - 2 20 bess Total denth - 27 6 p. Began backtilling 130 Fanished bulk 11 m, decome

6-2-05

5/

6-00 for Joss Svocs, herbicides, newly Jammonic, PCBs, Pestouder & diorn skadspore - 192 gpm, Also addis MS/MSD. Long amnonia-like odor. 1530 Pregad in to collect 5 rface 5 gly O AT-Q-D, will collect adject to tal, 25 from Sedging french 1545 Collected AT-0-30-55-11 y travel for vois, soors herbicides mertals, ammonia, Also collected AT-Q-30-55-1-0. Headspace -0 Mossin to traile Jest gil

0645 Anned on-sk loading agriph 0700 Hosmeting heather - 80s, Overast PPE- Modiking D Revsonell-URS-Girans Kaing EMA-And Canein Bed/Fils Mungles CHIMIT I Em ly Motander Vin Maris 0705 Waifing on CHITy decrance + Extenda- on ator backhoe for work in Sike P (w 9 PT's parking Cot) 0720 Repains to collect Field Blank trower - - 5500 mot well to wheat 90-Aca 52-09 @ AT-0-30-55-1 140 Colletal AT-Q-30-55-1-PB for was svecs her siciles metals Common a, PCBs, + Postic des OBO Repair to asket surface so ple of ATICO 35 will collet adjace of to of 8 1 y Wed 9 perl. 050 Calletter ATIQ-029-55-1' 21 + rowel for vorg svas hasicides netals a normy, 1CBs, Past ciles - down Too Med B. M. Key She to Yo

6-9-0\$

Location Sau	iget, IL	 Date _	5-16-05	33
Project / Client	5A2	 <u>-</u>		

Arrive on site. 0605 Help Mike load up for the day 0700 safety meeting Head for Q-South. 0725 0735 Meet Jack & Kevin at Q-south Show Jack what is needed around the power lines along the E. side of Q- south. 0750 Prosonic arrives at Q-south to start on locations on berm between the two lagoons. 0800 Wait for charlie (Bobcat) to show 0850 Drive to pole born and O-central to look for Charlie 0905 Found Charlie on the way back to a- south. 0910 - Clearing crew starts clearing around SA-Q-9. 0935 Clearing crew starts eleaning around SA-Q-10 and AT-Q-35 Clearing at SA-0-9 Finished. Finished clearing around SA-0-10 and 1010 AT-0-35. Begin clearing pathway to

Arrive on site for the day. Help get 0605 loaded and ready for the day. Safety meeting. 0700 Head to Onyx to check on UAA-9. 0710 UAA-9 location found A little bit 0756 more clearing still needed. Head back to pole barn trailer. Back to Onyx to talk to Dennis 0805 Warchol. Stew Dennis said accessing UAA-7 0810 (other side of American Bottoms) from the wooded area (Onyx property) South of the Onyx facility (near UAA-9) is not a problem. Accessing UAA-7 from here will involve clearing on Onyx property and into Village of Sunget property. Steve (URS) says we have permission from Village of Sauget already. Talk to clearing crew at 1144-9 0825 about clearing to UAA-7 Head to Q-south for level B work. 0840 Arrive at AT-Q-35. Level B work 0845 about to begin.

	LocationSc.	uget, 1L	 Date_	5-19-05	
٠	Project / Client	5A-2			

1205 Trenching stops for lunch Everyone beginning to decon. 1225 Head to Onyx to check on clearing crew and to get GPS back from Julie. 1250 Clearing crew almost to UAA-7. Jack left around noon for an eye doctor 1305 clearing crew will finish up this afternoon. 1320 Head back to Q-south for more Level B work (AT-Q-35). 1330 Back at AT-0-35. Waiting for everyone else to arrive. 1405 steve calls and tells me to dress in Level B as - backup during backfilling Everyone shows up and starts fressing 1450 Brandi & Kurt come out of contaminated zone and undress (finished). Bud (operator) backfilling the trench. 1605 Help packup while Bud finishes backfilling. 1520 Head to Onyx to check on clearing ccew

5-18-05 doothy ~15! Ch/M/1/1 0/6 le nother digth - Million of significan ras found no druins or dum semment. 1330 Bym bulkfolling Such, - moderated SShraff & BILigins nel 4 X Smill ABTT & Se of an acess road laisted for posting location. More exist. Emisted Luckfilling Preparing to collect Extace sangle from \$1-0-36-from 25 from porther end / fench n720 153) Decominy bucket 1540 Collected AT-0-36-55-0,5 Us.~. framel for voce, suces, ne bicides, metals, ammodia, PCB1, Rostridy odioxin alfset - 70' from edge of forch to collect Girgledue to Uso! dishr king due to excavator, 1610 back o fraler fo discess tonorras. 1730 Jeff gte

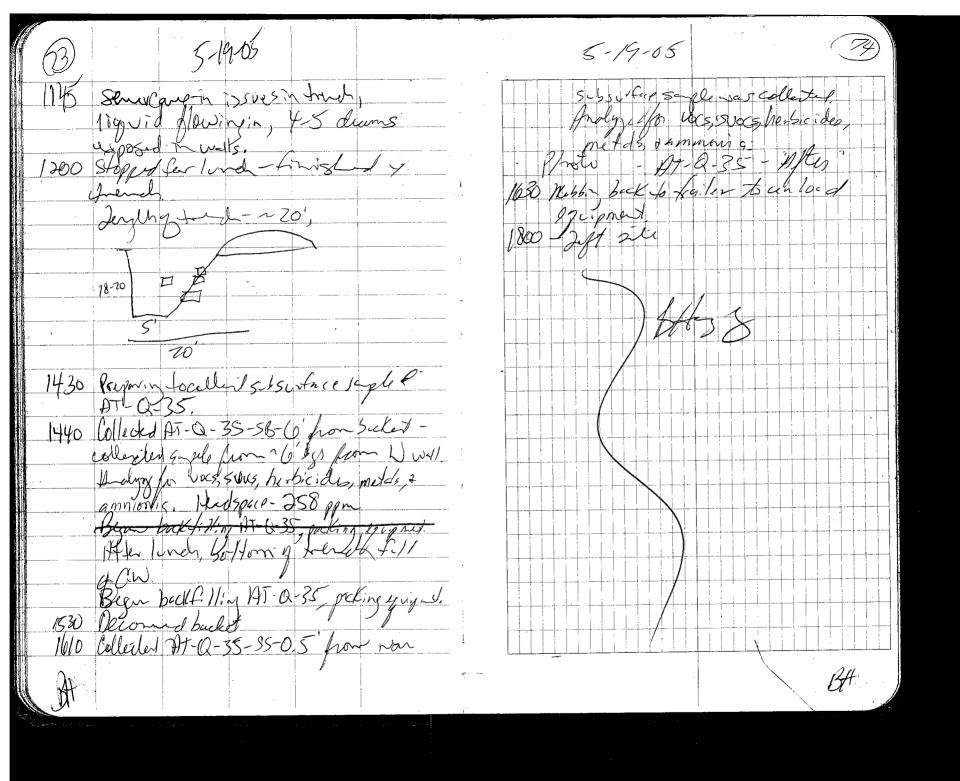
600 Arrived on site logding grane Califrated inspure to (100-0) 199-0-0 100-101 VIEnn 120-97.2 (IDU-01 CGM- See Justins by Weather - Overcast, 20.5 RPE-Land B Resonnel - BHighs Koring Shy BU: Wanson w Sheing - UKS EMA- Alvin, les, Andy Carre (W. W.Kill- John By law Mariss, En) mbbive to next location -11-0-35 Sulting paralesion you 0725 0900 Beran trending AT-Q-B5-rock Thens E/W I began trenching @ Rosken ela of bench of west - beginibuly @ Joe of so Photo # 25- AT 10-33-5,

519-05

0-5' - Encountered municipal fillpricks, tires, tash somewood Photo # 26 - Til muterial 10710 pt ~10' from Eady, encounted onite dum itd, very deterioted photo # 27- prom /d Crush, dulcrowd of Gofform of drun Mich # 20 - Pal 2 drum " 29-Moremost arang Paint Angaving to called waste sayd from before y field E end Close to while; lawrem was encoundered). - 2 10' bgs, 5' from & ede of heach. 0935 Collected AT-Q=350-WS-10' from bucket Row UKS, Svas, herbicides, met sts, amonia, 4CBs, Rest codes divin & Jel Panelysis Continued Landin 0950 Headspace-16, Japan Encarter I another part of a drum - 21/4, crushed - PM reading 20pm. 1000 n) l'by, ~ 15' from E edge en merch bucket function of from o clear ligarid BH-

lesked at for den notes, -Attempter to screp material from top of drum I removed enable intact drum bucket out docum ALZ gieces-yellow sold materica in drum -PID-nlessepm Photo 30 32-38 1015 Tuenabreck to discus plan 1055 Come to antique tenching clean and bettern of heard, hear centry sera bak-wall by teeth! Collect # 0-35 WS-8 for buffet while intact drum cent of proper a pot) & yellow solid. had no vocs suves, her sie de nefels lammonth PB Pestil de diown o JCLV analysis Colletod from + 20 Wy E ldy of In Ladebace 75.8 Engolithed paid du - 225%.

5-19-05



the trench location on the barge camp in Q-central. (Kurt called) Get the Geotextile loaded on the 1000 bebeat to take to the trenching crew. Head to Q-south with Jack & Kevin 1020 to mark the 4 new trench locations as follows: 50' 5 of AT-Q-33 50 E of AT-0-33 * 50'N of AT- Q-35 50 W of AT- Q-35 * points not marked now because of brush in the way. Head back to pole barn / trailer. 1110 At trailer to talk to Steve 1115 Leave site for the day 1130

Date 5-25-05 Location Sauget, 1L

0600 Arrive on site for the day Help load up for Level B profiling work today 0100 Safety meeting 0715 Meeting with URS people about the tentative schedule for the remainder of the SA-2 project. 0725 Take a load of trash (NON-PAE) to the dumpster. 0730 Head to Q south to check on the progress the clearing crew made yesterday. 0760 Jack and Kevin arrived at Q-south. They said Charlie was getting fue and would then head over here. Brandi called and asked for Charlie (bolocat) to dress up the trench location on the burge ramp in Q-Central. Jack and Kevin went to relay the message to Charlie. 0820 Jack and Kevin return to Q-south. Continue clearing areas marked yesterday. 1030 Finish clearing for the trenches 50'S of AT-Q-33 and 50 to of AT-Q-33.

Check on Level B work at AA-Clay-2.

Finishing up. I help them load up.

1510

Location Sang	ch #1L	Date	5-25-05	- 57
Project / Client	5A-Z			- '

aland will come pick up their air line tanks tomorrow morning 1545 Head back to pole barn to unload. 1555 Talk to Steve at the trailer. 11030 Leave site for the day.

Arrive on site for the day 0605 Safety meeting 0700 Wait for Oiling to show up to pick 0710 up the airline tanks they dropped off the other day. oilind arrives. Lead Oilind to AA-Clay-2 0720 to pick up tanks. Head to Q. South to mark UAA-10 0740 off set from the property E of the level to the W side of the level staying as close to the lever as possible (Andrea is making calls to find out how close we can get). UAA-10 marked ~410 ft W of its 0755 original planned location. Take supplies to Kurt & Brandi at 0800 AT-P-2 Head back to Q-South to check on 0815 clearing crew (supposed to be brush hogging areas cleared yesterday.) Clearing not at Q-South yet. Bobcat 0830 Still dressing up the trench location on the barge ramp in Q- Central.

Location Sanget, 16 Date 5-26-05 Project / Client _____

0930 Clearing crew arrives at Q-South with brush hog to finish cleaning new trench locations around AT-Q-35 and AT-Q-33. 1100 clearing crew finished in Q-south. They are heading back to the trench on the loarge ramp to see if more rock arrived for them to finish dressing it up. 1105 Check on Justin and Brian and the profiling crew at UAA-10. 1135 Back at trailer. 1200 LUNCH 1215 Help Andrea around trailer/pole barn 1330 Run errands for Andrea. 1440 Return to trailer/pole barn and unload. 1445 Talk to Jack & Kevin Send them home for the day 1450 Head to American Bottoms to get the gate unlocked for Adam (Prosonic) so they can finish SA-5-1. 1500 neet Brandi & Kurt at AT-P-4 and wait for them to finish gathering a surface sample.

Location <u>Sauget</u> , 1L	Date 5-31-05
Project / Client	

0610 Arrive on site for the day. Work on sample tracking and printing labels needed for the day. 0640 Load up for Level B trenching work 0705 Safety meeting 0710 Finish loading up for Level B work. 0720 Miscellaneous duties around trailer Fax cocs from 5/27/05 to craig Johnson in the URS-Omaha office 800 Arrive in Q-South to help set up for level B work in the vicinity of AT- Q-35. 0830 Begin setting up and helping others dress for Level B work. I am serving as the life line Cuith phone and vehicle). We are doing the additional test trench ~ 50 W of AT-Q-35 first. 1115 LUNCH 1130 Sample tracking supply ordering, etc around trailer 1200 Back to Q. South For more Level B work ~ 50 Further W from

Project / Client _______ SA-2

AT-0-35.

1620

1420 Begin the test trench located ~50'

N of AT-Q-35.

Return to pole barn to unload 1600 Miscellaneous around trailer

Leave Site for the day. 11.30

Project / Client SA - 2

00025 Arrive on site for the day Help load up for Level B trench work

in Q-south.

0700 Safety meeting 0705 Continue getting ready for Level B work

0720 wast for Walter (STL) to show up

for yesterday's sample cooler and

for Fed Ex to show up with supplies

ordered.

0.745 Head to Q-south to help set up for

Level B test trenching

0830 Help with Level B test trenching

(Life Line)

0840 Dan Geisler (EMA) shows up.

1040 Justin (URS) arrives so I run some

errands.

1145 Back at trailer/pole barn. Miscellaneous

1245 Head to Q-south for more Level B

work this afternoon.

1320 Back to pole barn to neet with

Oilind picking up empty tanks.

1330 Oilind arrives and says they will have

the tanks back around 0830 tomorrow

Steve. Miscellaneous work.

Leave Site for the day.

1600

Location Sauget.	1L	Date 6-3-05	
Project / Client	1-2		

0605	s Arrive on site Timesheet and	مئے ۔
	miscellaneous duties around trailer	1
	pole burn	1
0706	Safety meeting	
1 !		
0110	Load up for the day, Wait for	
	Walter (STL) to pick up sample	
	coolers from yesterday Miscellaneon	15
	duties around trailer/ pole barn.	
0730	Walter arrives and picks up sample	
	coolers from yesterday and signs	
	Locs.	
0735	Fax COCs to Craig Johnson CURS-Omaho	
	Miscellaneous paper small ting in	
	trailer.	
0745	Begin locating previous wells again.	
	See Mike Miller's (URS) field book fo	_
	location and access notes.	-
6930	Check on clearing crew dressing up	
	trenches in Q-south with addition	
_	dist while locating previous wells.	
 	Trenches so far (AT-12-35) look good	
-	the exposed debris is covered.	
1330	Lunch and various office duties	
	4 7 7	

0635	Arrive	on 51	te.		
	Handa	at with	Bana	li to s	ound
0745	mean of	C 6-11) <	01/00	SEB -
	Dell'S	or Gu	Jam	pling.	for
	Brandi	5 FIEL	d book	CURS) 001
	notes,				
0845	Return	to tra	iler; to	Ik to	Steve
	and	Andrea	abou	rt who	et to
	do ne	xt/wb	hat ne	eds to	be done.
1035				expe	
		_		work	
1140	1		railer	i	
1145	Lunch				
1200	Miscell	aneous	around	traile	r
7240				eet We	
	(Robers	ts) at	GM-17	7-C. 50	e other
		-	for no	1	
1645		1	for the		
		U			

Location	Sanget, 1L	Date <u>6-22-65</u>
Project / Client	5A-2	

06	30	Arrive on site. Miscellaneous	
		paperwork, etc. around trailer.	
07.		Discuss plan for Today and upcoming	
		events	
08	10	Head out to Q. south with Brandi	
		(URS) to measure distance (linear)	
		between SA-Q-10 and AT-Q-35	
08	30	76 ft measured between	
	i	Sk-Q-10 and AT-Q-35	
08		Back to trailer	
09	10	Head out with Brandi (URS) to	
		sound more wells. See Branch's	
		log book for notes.	
10	45	Return to trailer. Miscellaneous	
		superwork.	
1:3	15	Mob to Onyx to get GPS coordinah	و و
		tos 0144-8	
13	35	Coordinates for WAA-8 stored in GP	5
1.0	110	72 1 1 10 100	
13	50	Take paper towels to Brian W. CURS)
		in Site O.	
		Back at trailer. Head to Lot F to	
		measure height of casing above	>

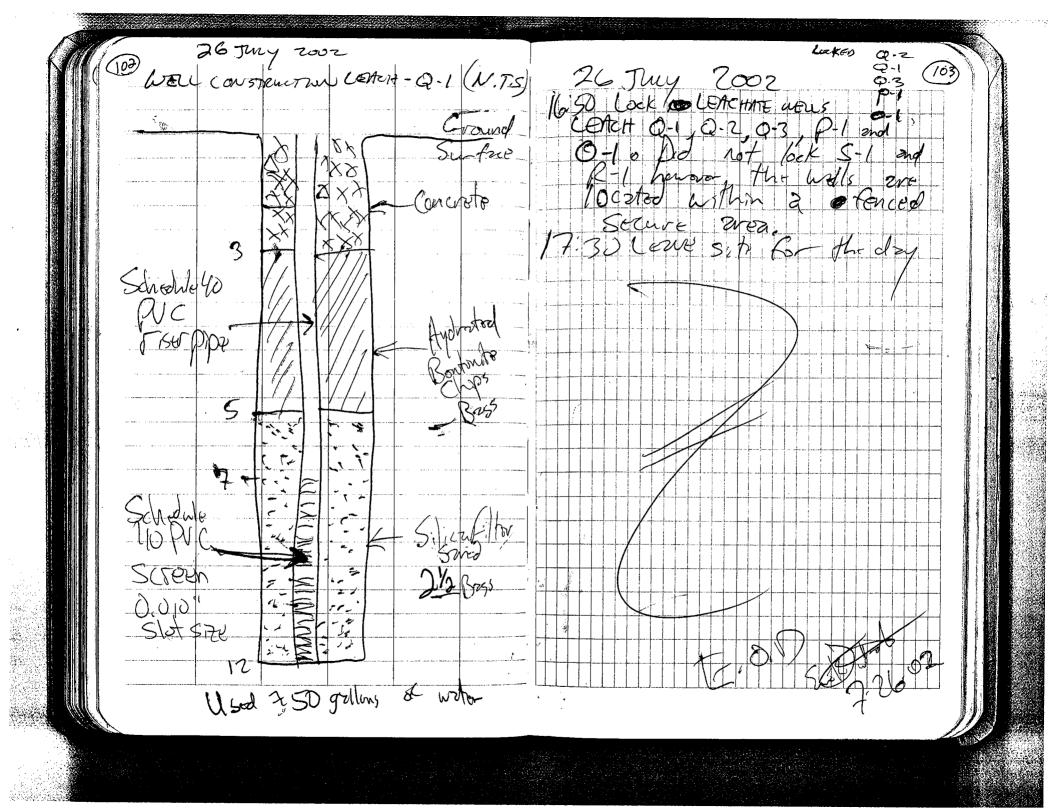
80-90's Sum Projects (continued) Na Ph acreement from CHAMHIL 1000 Th D'.

 \bigcirc Bons Stend URS) of ed down james n brick concette clibris At 1 3 35', in black contamines 1100 to heard D- no tyvek soil 4 dick, concrete, cinders, Inished back Ailling Cindos 14 ~ 55'- hit a slab of concerts 1140 Repris pt plaster sheding in Broke for Kend. 1260 170 mis back of les Butte Bound Trench Oj, Contino 1300 excavating, moved excavition and agripmit e french Cocalery to N 5' Wot original trench due to conside shab of truction. B45 Da-ins rock 1400 12-3' - Brick & concrete deligo At ~3'- civilles , brick , correcto 1430 Encantered some slob of concrete in this 2nd Irenely Interity good in most places; towards Nerd of trench ineparted said (yellowish). Spolo & Steve (URS) Reagen Glast) - CH SM Will Decided to baskful existing french o clear Hilitias for a wider carrido i como bock at some point. 1500 Begin backfillin correct trendle (in refuerse order)

13 M on Saturday morning Milissi 0700 to me on-ste, sveicest, 805, Chodel of Eagle Maine 120 Bencal sont no equipment PID-0-0 106-100 160 - 10-00 hs + 78 (GL-0 &- 20.9 QXX Back so not bred one weekend. writing sor new balkhor to be delivered of for wisting five to be free OBO Rowback Loe detivered, Egon setting 106 Began trending bound trend Q-1, offset 115' to yest from original location thencheon 6-402 Charter mad connet pad 0-2-lins nock De Black anders 4 broke Obrerete debris, odn pregent 16-7' Encountery mumpal waste (bag, ties) 1030 Reagon said since we are downshy in waste, more french to north to attempt to set of much concrete part and 10' section, no waste, encountered

IP MILL inor conveliped pagain @ + 5,5-6 02-LMS pock Pad on 3' Shide - 1st Jen' 2-B/all ander 4 brick o concrete 3 dim was edge (5) 1050 Steve spoked tothing across At 23' - encounter brown Hick ider, sky very copinous shi Sow until : passes over. 1: 7 is d - very small and - continued den Glen. Broke to ley 1130 1205 Styles deared of Segra 13/2 Encounter Corcrete Ray @ m 5" Fransasti @ souther end of last 20 Jonishine up on By-a-to seite a revel O-1-Klagon Sand complete the trench No vote in vorther most 15 elbor to concerte. In last 10 of 40 Alench (to N) 1320 At 1 15' - thru wak section i230 concert pad agreers to drop of concrete pad + 5/1/ 14 yellowish green Colorab Concerti (waste, End of trench 1/0' Similar to 1st Q-1 french) From lince line . Gray shiple of motor Ninde At on 10' deep encountered for commedities and backfilling 1235 1400 Began moven bulling Typ to next Countin preduct no hits on P.D. Ster suid do ball fry trench in order 05 Ricky Prisher Brokf Ring So Keep extending out to north - to determine edge of loundary 1430 ff Bound French Q- 7 Selling began backfilling Finished bullfilling all but for 2-7.5 up, Sky dark, holding of Undil As Rill Finished backerying, Cocange it books beth 1500 8ly denty & lit Malon son is going to begin tunding the last

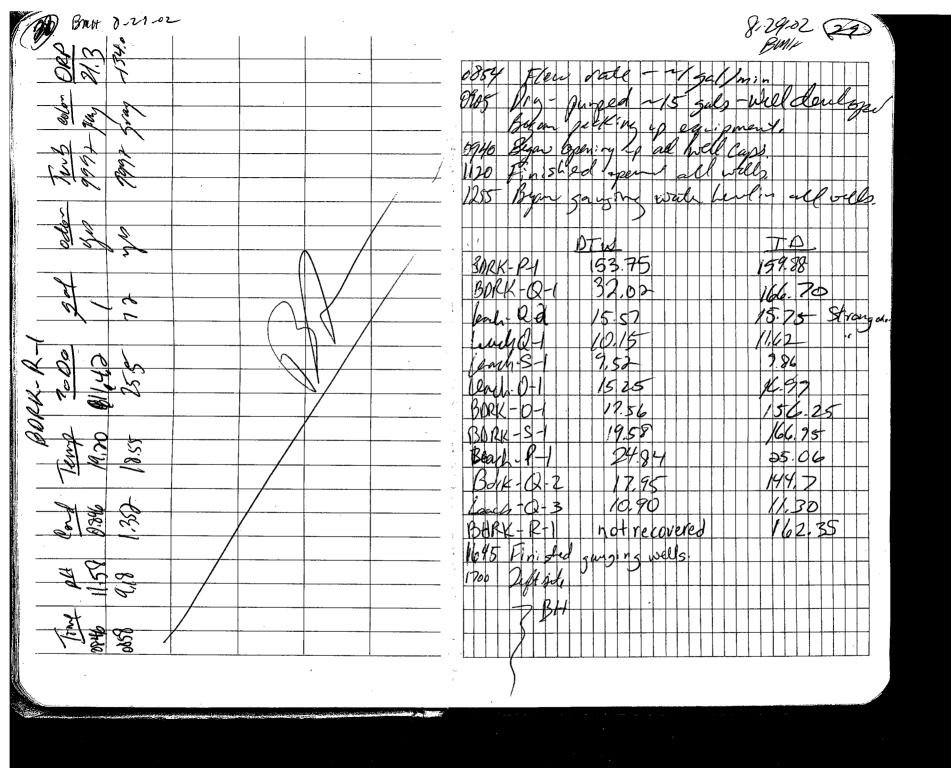
26 July 2002 76 July 2002 12:35 Prosonie motaling well 2:45 trosunic cloring up mopro-pering to de mobo back to trailor for dean. Ext going to put locking CEACH: Q.3 13:35 Disense to linch. 1/150 CHZan, Rossan & 4RS bestron & not Parchete will. For Alles at dan los Alo had 2 decon stop work with the Phoenix location and my com will do the remaining Cleans as arand 4 total of 1 EM CH - Q-Using respirators to della ane 15: 15 Down to 12' eucounter native meterra Holing of tuns & each bestron



39 July 7002 30 Jay 2002 Toboling Sochus catting core which are be submitted for this Soction enoughis Mothod ERF # drums at Site Q The protect is Examine LEACH-0-3. Surface uld milke the Kloson to the tos of This protector B too high (24 /2 feet Drotection cosind and mala sport grade and 122' Maring for assir pecos Lehrar arodon other arts and to pick me up for D-20 molos for horset 13: 20 Core for linel Comes over to /zboling, drung in chocken hors47 et LEACH-O. 3. We is a lode Dictanter Completion is 2/50/00 and the rosor TE P 20 Spyl peconning , too doop. Dre Sorie Still Sconning to The od over Oran the working VDrosunic Phishing decon ACF in the store grund constitution 1600 Prosonic corew bosin work to install froffin went of LEACH-Q-Drosoniz still working Tell Phan ! those Site for the Dr

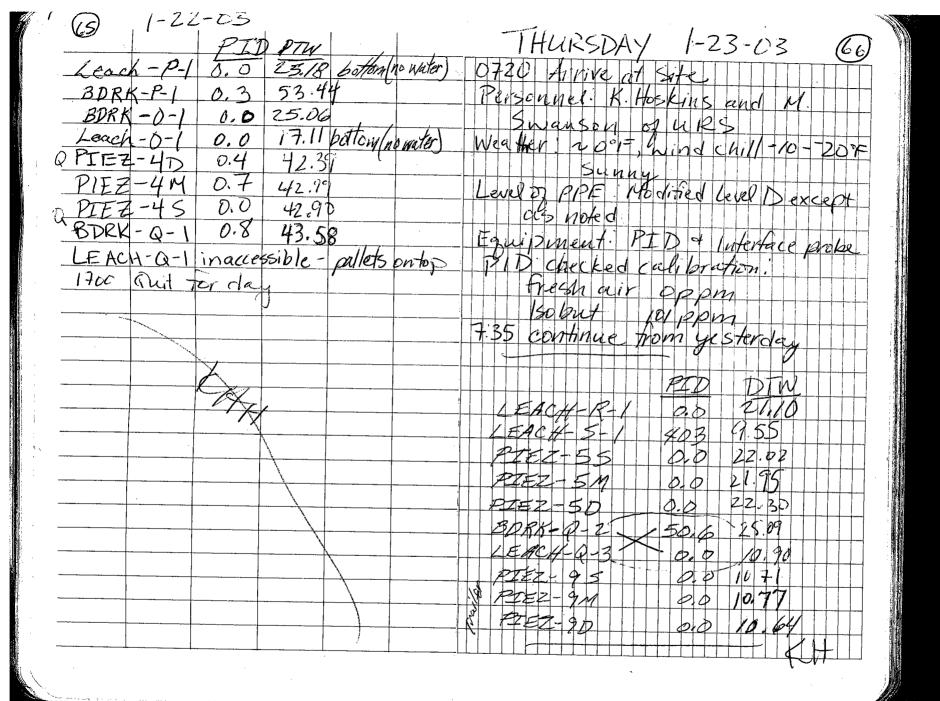
Projects (continued)	0200 Arrive on site, where held site
	sold meeting 80s Duercast.
	0705 Rosail Calibrale Peguinners
	RAM - 4 no ed
	C6M-450 C0-0 (660 2)-209
	A 5-75 CO-50 CGL-50
	6730 Began tak on well caps of all
	leachald + bedrout mentaring colls.
	0900 Ainst of spen of all wells
	interfecce probe,
	0920 NA BIRK-P-1
	Dia TA
	BORK-P-1 15.86 159.86 Syt 340 Clark-0-1 Orn 25.50 do 2007
	0451 Lead 8 Todayt - 1508 1509 1735 Mardodor
	1000 beach 3846 6 Prose -946 957 (038 had alm-
••••	100 holk 1000 1881 1841 500 1
	WI DDUK - 0 + 1 May 850 (0.)/
	450 leath Q-3 dry 11.79
	7055 BDRKA - 2 Print 8.48 19.485 1.45.41 Sept
	123 Jane Q-1 Product 11.15 11/16 12 0 73 aday no-2
	430 BORRE Q-1 3612 3612 16185 Soft

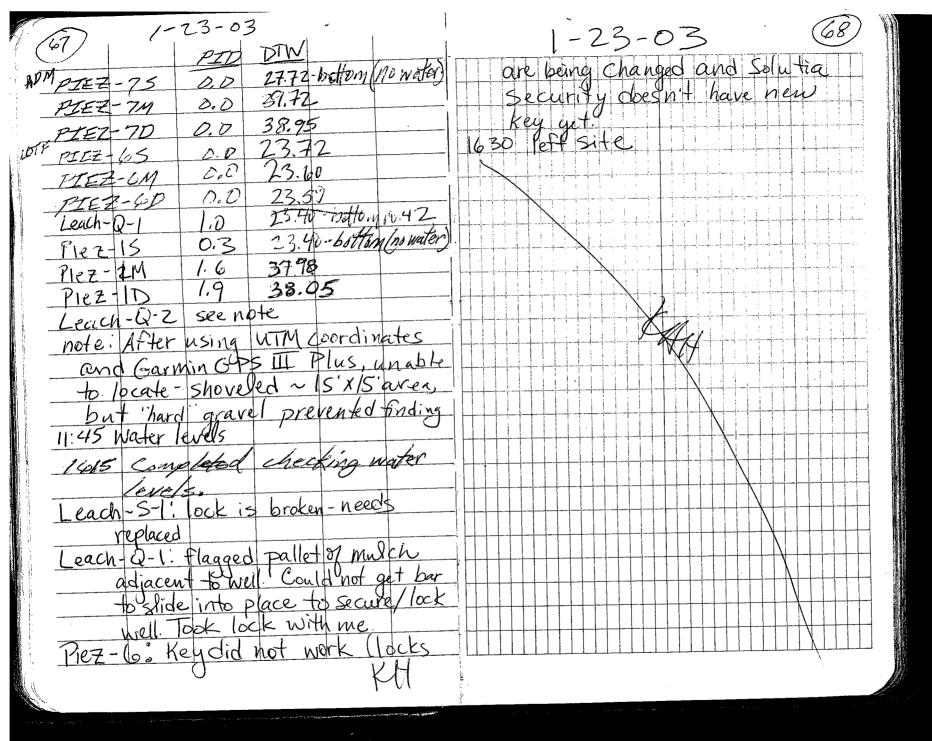
gn H 8-19-02 0 3 DIW Product 1144 16.495 alor had 24.29 od -, 5/1 1201 26.02 hard do 21.075 1210 1030 to develop wells. 1300 1345 1350 1358 1410 1803 1435 bailer 1444 100

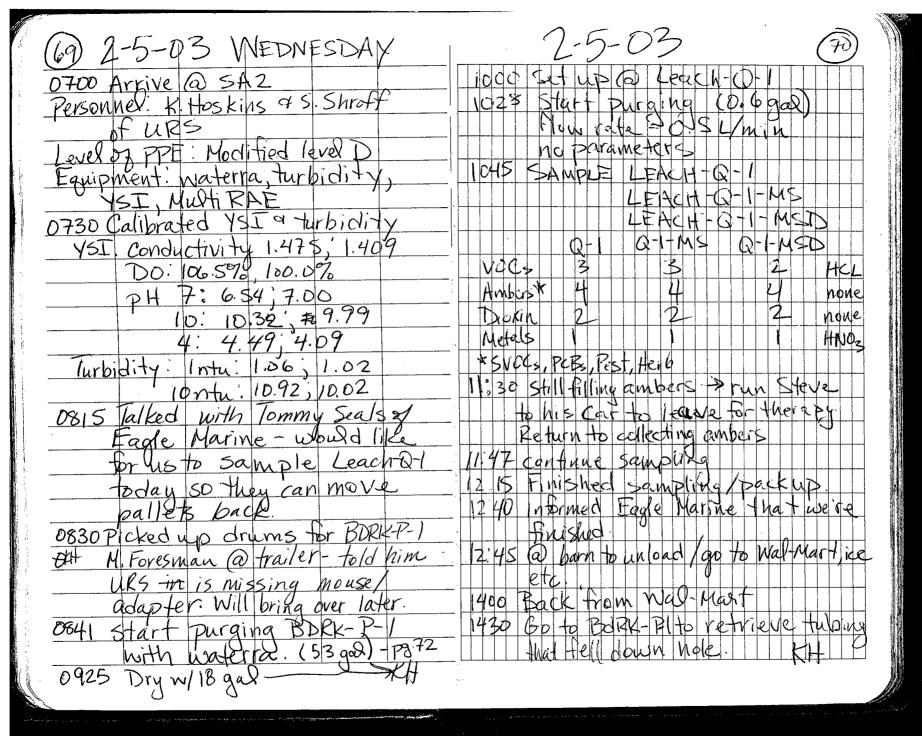


9-1002 BMIT Englar Alfitalfac pung o no Calibrale egus DE - Level 1 (Later fewl - 16.30 1130 PIP-0+6 100-100 Sample / each-O-200 VOCs, SVOCs/Pest/Herb/PCBC 90M - ESSO 60-0 1040 (Hambers), Droxin and 465-24 co-49 LEC-49 0-20 1 Ameri Cood truly of equipment. Zerd -0-1-dry 1345 Back a lead - Ol, Anished Ms to lead to to conte Sampler - Almost band 1st 12 Amber o bean 2nd. /L. Mospin du Site & to sollect Jampel y bailes 1430 Bilgan Collection up buter - samply I'me labeled as 10.26 0745. Sampled for von dioxin, 0880 SuccepcB/Post/Herb & Metals Sample LEACH- Q- Pand Dup 1630 Finished collecting surple VOCS SVOCS/PCBs /Pest/HerbC4 Also collected leath-R-1-11/4 + Dioxin, Metals lend-R-1-MSD 4-eachate will 15 a dark yellon Mos to leach - O+/ to 1635 Continue Belling 16 Ambus Color Derent able to fillentany Note: Actual sample time - 9.00 2935 pack up Leach-o-Back to pun to fast samples 1650 fell of anvives to take croder left gite

(3) q	123-07	7-		WEDNESDAY 1-22-03 64
		vels con't		Quarterly groundwater monitoring
		1 22.67	166.17	1300 Calibrate PID-Hini Rae
		1 19.55	158.05	tresh air. Oppm
ADM		34.87	27.65	Isobut: 10/ppm
	M		75.37	1409 Arrive at site.
	D	32.51		PERSONNEL: Kim Hoskins and
trailer	Piez-9 S	7.79	19.27 hard	
	M	7.84		
	D	7.71	105.45 sal	LEVEL of PPE. Modified Level D
	Piez-6 3	19.37	30.725	Equipment: Interface probe, AD
of all the limited country of the spiriture of the property from the same same same	М	19.28	74415	
	V D	11111	114,90 5	1415 Start opening
The state of the s	BORK-Q-2	- ZD.11	143.28	PTID DTI
· !	leach-Q-		17.32 h	BORK-R-1 0.8 37. 61
	Leach-Q-2	. 15.56	1586 S	
	Bark-Q-		165.80 S	BD4K-5-1 22 28.64
<u>Q</u>	Mez-H	5 36.27	52.50	PZEZ-85 0 0 13.25
	M		94.54	PT 2- 37 00 14 84
· ·	<u> </u>	35.83	13431	
	Coch-a-	10.33	11.68 h	222-25 00 2650
-60.1	Leach-R-	20.53	25,55 h	Peter 34 P. 1 34.33
1850	Felt site			BEZ-20 0.5 36.22
	1-7-1			PZ=2-33 P.O 32.19
	1-5 AV			P7=2-34 20 32 95
	1 / 15			1 2 3 5 6 6 1 32 8 5 1 1 1 1 1
	10.			

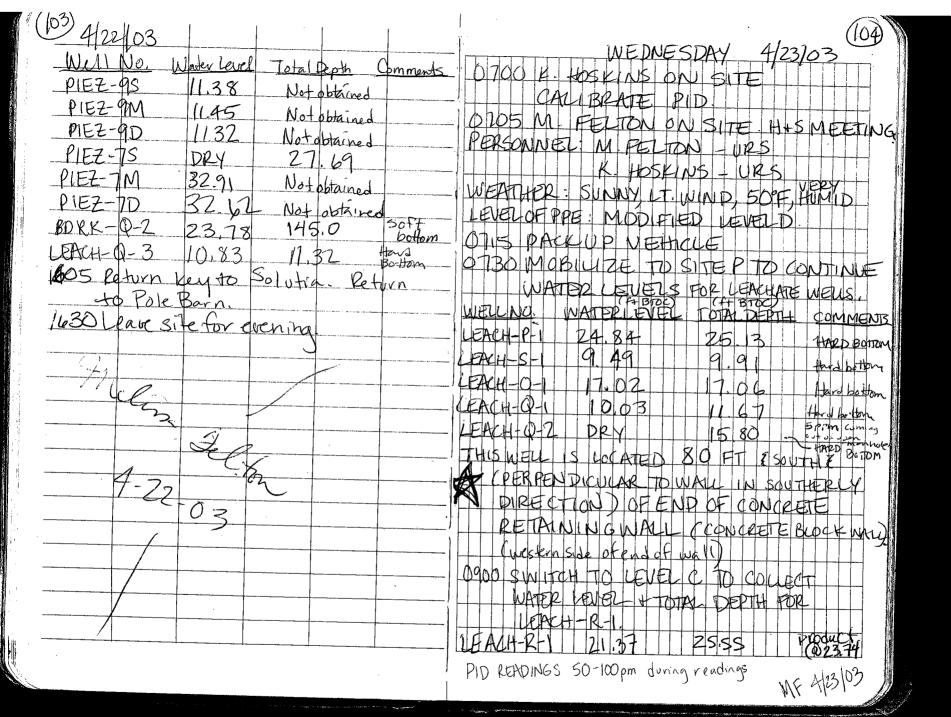




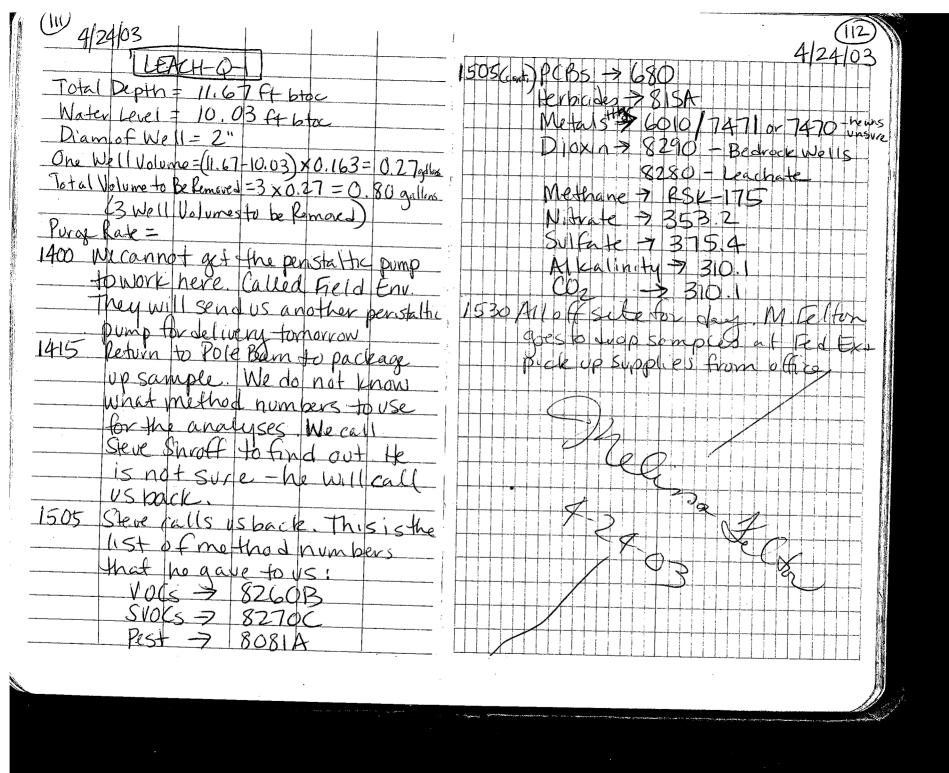


4/22/03 TUESDAY 0700 M. FELTON + K. HOSKINS ON SITE CALIBRATE EQUIPMENT ISNPACK SUPPLIES, DAILY H+SMEET 0735 MOBI 41ZE TO SEE 1F PLEZ-1 IS @ ACCESSIBLE VET. IT IS NOT GATE IS STILL SH LOCKED 1740 GO TO EAGLE MARINE + LET TIM KNOW WE ARE GOING TO BE ON THEIR PROPERTY. WE FIND LEACH-Q-1. IT IS NOT WHERE WE ORIGINALLY THOUGHT IT WAS NEWILL MARK THE NEAREST FENCE POST WITH DUCT TAPE SO WE CAN RELOCATE THE WELL AGAIN IN THE FUTUPE. GET LEACH-10-1 OPEN. 15 FULL OF WATER. DRILLERS DID NOT PUT A HOLE IN THE BOTTOM (WHICH ? IS CONCRETE TO ALLOW DRAINAGE OF SURFACE WATER THAT INFILTRATES THE WELL COVER THIS NEEDS TO BE DONE, SINCE THE WATER WAS ABOVE THE WELL, IT DOES NF 2-03

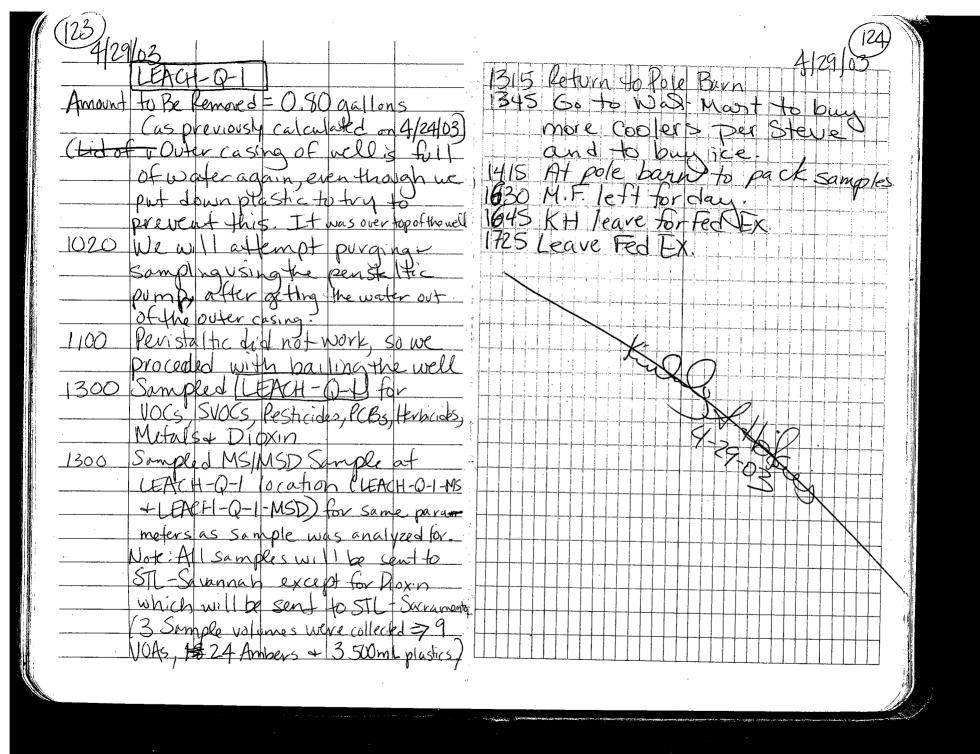
NOT APPEAR TO HAVE INFLITATED THE WELL WE BALLWATER OUT OF THE VAULT BOX & EXPOSE THE WELL HEAD. 0840 WELLALD PIDREADING COMMENTS LEAGH-Q-1 Dppn ODDR OBAO MOBILIZE TO LOCATE LEACH-0-2. ME WILL USE A METAL DETECTOR TO ATTEMPT THIS WEPIND THIS WELL WITH 0915 HELP OF PEOPLE WHO WORK HERE 0920 TAKE BEADINGS. MALNOL PID READINGS COMMENTS WOIN Was LEACH -0-2 1126 ppm covered with grave 11- no was inside out it thou Check PIEZ-T+ 15 Still hot 0935 Stop by American Bo Homs & get Keys mobile to UEACH +S PIDREADINE Replaced lock MENO? 358 ppm LEACH-S-1



3700 K. Hoskins on site. Calibrate PID. Oxin Metals Ferrous Iron 0715 M. Felton on site! Fale, Alkalinify + CO is bad It is vaining fairly Sent to STL-Savannal For the Dioxin which L-Sacramento and exc hard PERSONNEL: M. FELTON -URS K. HOSKINS - URS WEATHER: RAINING HARD, \$50°F all remaining samples LEVEL OF PPE: MODIFIED VEVELD 0745 Check email & check Courney this round of groundings weather on internet It appears that it, will 0815 Still raining. We will as to Walmart & get some supplies Return from Walmart. Rain 0915 1106 Ferrous Iron w/ Accu Vac Ampuls
BDRK-R-1 = 1.01 mg/L Fe²⁺ has reduced to a sprinkle. Prepare for sampling BDEK-R-1. Instrument MACH DR/2080 0925 Mobilize to BDRK-R-1 to 130 Go getice. sample if water level has 1140-1200 LUNCH + Check small recovered in well BDRK-R-1 Water Level = 79F+ 10 toc 1220 Mobilizeto CEAZH Q Wewll sample now Sample BDRK-R-11 for VOCE



4/29/03 TUESDAY 0655 M. FELTON & K. HOSKINS ON halfway through collecting these samples to allow the well to recharge. SITE CALIBRATE PIDICGE 0715 HAVE DAILY SITE HEAUTHY SAPETY MEETING. PERSONNEL: M. FELTON + UPS K-HOCKINS- UPS WEATHER: FOGGY, VERY HUMB, NO WIND 255°F LEVEL OF PPE: MODIFIED LEVELD We collec EXCEPT AS NOTED SVOCS PAST CILES PCBS 0725 BEGIN PACKING UP VEHICLE. Thore is still not enough fluid WE WILL CONTINUE Didan Samples sawe doll SAMPUNG AT LEACH-R-1 SINCE IT WILL HAVE RECOVERED BY NOW 0740 MOBILIZE TO LEACH-R-SETUP FOR SAMPLING DONE IN SETUP FOR SAMPLING DONE IN LEVEL C. 0806 Collect LEACH-R-1 Sample for Pesticides PCBs, SVOCs, Herbicides and Collected for Pesticides PCBs, SVOCS, Herbicides singe the other four were collected on yesterday. Herbicides, PCBs, SVOCS + Dioxin M.F. Collect LEACH-R-1- DUP for Peshcides,



Pichwell no MSwemson-URS Filled w sed man theman Wasps To protestive 100-100 0730 Began apening all wells & prezonation WEIL/PIEZ DON P10 2.0 Comments No lock BAKLED O-1 Picz 9-5 Picz 9-M No lock 0.0 · Piez-4-5 0.0 Picz-4-m 0.2 Piez-4-D 0.3 Leach- Q 3 BORK-Q-1 Cut lock of BORK-0-2 00 Kez-1-5 0 · Piez-1-M 0 Piez-1-D \mathcal{O} K12-2-5 0 11028-5 Viez-2-M 0 Riez8-M Picz-8-D · 8-62-2-D Kez-3-5 0 Zunch Piez-3-B) At Solution getting but I be O Turning in Ken to Sollution Piez-3-D

Tuesday 6-10-03 6-10-03 MSwarsen Pusonnel-BHighs-45 M Swamson URS Weather-Heavy ran com boult baded with land PPE - Wodfred Cert OP67 - some to keep open of Check again a fle hours It had Q 2 efter remain water Heavy rain nos 2 Capate velly in norther sit & - concerns might be fally on wites 1489 - 410 come 52 R m 3 since ayps were removed for well gauging/stabilizeton O-0-1-ofter taking a rainalety mob to leash to 2 0.62-8-5 0.62-8-m Cepsh-0-2, 1201,5 covered in rainter rundy Mos back to pole fain of of Buck @ Ceach - Q- 2 - after romoving water of vault 1:d, put cap on hall was taking on water

6-17-03 Wednesday 6-18-03 nitate, nitrate SI Late alk, 0700 Knother and Bruiggins meet Coz forousion, diain, @ office. SUOC/PEB/Pest/ Hut. 0730 Arrive on site Calibrate 1045 Paskin of egypomt equipment load trick, health and safety meeting, during suppling purp scend Personnel: Briggins Significantly - need to call K Freder PPE: Modified Level D 1115 Back a frances put. 4 Weather: 70s, Surry 0900 Repr - 5 ple bottles for leadate sampling 0900 Mossing to Central Q-1 BORK-P-1- 0.55 ms/c BORK-R-1 0.32 mg/L 1230 Dell site for off 0920 Began plan Leach a-1 of disposable bailer - 3 well oso Sampled Leach Q 1 4 Coch Q 1-0 p 1/ disposable bailes go VOC metals dioten, Succ /PCB/POST/Has 700, 755705, cop all shippe to \$71 Savannah Except dioxin - shipport of The - Jaconsets 1030 pt trails unbading eguipment Sample

Location Sangel, &L		Date 05/05/05	- 21 -
Project / Client SA2	SI		

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Location		<u> </u>	Date	_
Project / Client			- 1 May	
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Project / Client SA2 - SF

put 1 05/05/05 Photo len 0685 SA-Q-3-0-31 0686 SA-Q-3 3-6' 12-13 NAPL prosent SA - Q - 3 0687 13-16 SA-Q-3 0688 17-22' SV/+ Seum is sond 54-0-3 0689. 26.36 (32.36) SA-10-3 0690 SA-Q-3 36-46 (42-46) 0691 46-50 somety sand w/ SA - Q - 3 0692 SA-Q-3 After wall with rover rocks 0693 SA-Q-4 Before dotting - fuch S 0694 SA-Q-4 0-2 0695 2-6 51-9-4 0696 plastic & metal at 5 SA-Q-4 0697 SA-Q-4 metal at 5' 0698 5A-Q-4 brain tuby at 5 0699 SA-Q-4 6-9 0700 6-9 plushe (7') SA -Q-4 0701 9-12 SA -Q-4 0702 19-22 SA -Q -4 17703 26-36 (32-36) SA-Q-4 Mof o 36-48 (40-44) SA-Q-4 0/705

Location Szuget IC Date 5/5/05 25

Bentante Sel set to by dure 11/10 break for lunch 1120 11/30 Discussion with 3 Shoot or Sent Valor issues organing lather breek and I me charged to en of the day. operating engineer (Tim) who is/zopens to be extremely flexible and willing as reeded alerted ne Jaborers contract with the to lunch and and of day He @stated that thou must take & /2 hour lunch between 11:00 and which starts If it 5/3/2 12:00 12:00 thay will charge through lunch. Also, they charge in 2 hour negenbarts the end of the dry guitting 5:01 Morns 5:31 moons WE charged to 6:00

Discuss these issues with stave and how that at times it way be estremely difficult to brack between 11:00-12:00 For lunch broad on the status of our drilling. At times the work directes Stove ogrees and is going call Dan Crester of EMA Thout the Status of this \$500 IMA is the contractor alists hand the Union employers 12:05 Bzck of bestron of SA-0-3 Upon words of Some tomis 1235 Well clamp done. Pro source remove votes from drum before mobility to SA-Q-4 Drillers go to get water Mas to Site R for drothler with and colls Refun to Q-Nuth SAQ-4 1310 Begin Drilly SA-Q-4 1315

Location Suget I Date 5/5/05-27
Project/Client SAZ-SI

14:00 6-9 595 and 9-12 had Slight crosstelike color and scared pro reading of Collect Newspace and very 1 Forest why Discuss with Claire of CHRun (4:1) and we decide that the definition of "oras" continum 5 Not Met Do no called int to some for the Co 7=m3 1330 Sample S4-Q-4-SS-0.5 for vocs, Svocs, models, ammoure, and herburyes 1340 Sample SA-Q-4-5B-6 for VOCS SVOCS, mod 5, amain, herbicias sestrates, and PCBS 15:00 Weter @ 35'695 Drill to 8'bys 15:05 5/21 Soffing well

Location	Sauget, 14		Date _	5-23-05	٥
Project / Client	SA-2	•			٠.

0610 Arrive on site for the day. Help load up for level B work today. 0700 Safety Meeting 0705 File Safety meeting sign-in sheet and print labels for everyone (Jushin, and Kurt and Brandi) since Andrea is not here today. 0715 Wait for everyone doing Level B trench work to move over to AT-Q-34. Mike Miller and I will be dressing out as back up today. Brian is not on site today and Steve needs to make some اء کا الم 0730 Head over to AT-Q-34 0820 Start setting up for level B work at AT-Q-34 0830 start getting dressed in Level B. 0900 Start trenching 1045 Finished digging Start undressing and loading up. 4125 Head back to pole barn/trailer 1145 Unload Mike's and my trucks. 1200 Talk to Jack (EMA) about picking up drams. The last of the drums from

Location	Date 4	. OI
Project / Client		<u>· </u>

so we put cap back on hole a couple hun later ue tried to take cop off again & it popped again & LEC reading bere hal again be are our rently shut down until aunder brings her Q'Rae over to verily our readings: As soon as Winder arrives we will approach well to see what readings we get & then nove on to SA-Q-30 5A-Q-4. 1355 Windly arrived and took hir Orac & mut to shut cap tight 1400 Left SA - Q-62 Z 1407 Arrived at 54-0-3 vernound ag + took readens, ORac = 0 3 (20.9) PS d= 0 0 Start masuring water + weel depth

Location	Date <u>C/14</u>	Ş
Project / Client		

Showed up at SAZ Pullborn to start calibrating equip met up with Roberts at 0800 Gas station (Phillips) for salt meeting with Wendy 0840 Brian From Roberts + I arrived at SA-PI When cop removed PID spiked so I put cover back on PID continued to read high so I went back to pullbary to recaliberate & change 0920 Jahrlusd back at BA: Pt to set up for purpose Once cap removed ITD alight have any spikes. 1000 Stonted purging 1035 Stopped peling

Mob. to Q-Central to collect purge 1445 water drums. Mob back to mod rank with drums 1515 collected. Begin dumping drums into mod tank. 1540 PID 0.0 when I'd removed SA-Q-6 purge water drum PID 0.0 1548 5A-Q-8 purge water drum PID 0.0 1555 5A.Q-7 purge water drum 1603 PID 0.0 \$54-Q-8 jurge water drum (20,2) -PID 0.0 1610 5A-Q-5 purge water drum 1415 PID 0.0 SA-Q-2 purge water drum PID 0.0 1620 SA-Q-1 purge water drum slight odor PID 0.0 1625 5A-Q-3 purge water drum PID 00 SK-Q-1 purge water drum 1637 (2062) ĆW

Location	Sauget, 1L	Date 6-16	- <i>05</i> 100
Project / Client	SA-2	<u> 15 - 11 1, 11 15 15 1</u>	

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brind aro Lilliansones Restorned - BHiggins, BW. I liam sen - UKS 0715 Mothing to Sid 0830 Comment 5 107.08 95.35 Sat 29.61 Hard 29.03 53 31 59 52,22 60 Bol. 14 6-163.31 27.70 5A-0-3 49.84

7-7-05

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SH-Q-8 +	23.62	44.64	Hond
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SACIL	18,03	27.58	Heral
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Location SAZ Phone 7/3 Date 7-12-06 Project / Client No indication 1 MAR ow + Mind - C. Prinist, To: 157. 71 JAI SELLYTHE the militarion is MANES on +1, bollow of then sking

Location SAZ	these 2/3	Date 7-20-0(89
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1330 Howalow - ste Creter M-51/2 fe level frailer after Stormy - sty Of concrete Wocks 350 Charles - CH, MAN/ ansite Preparin to collect MAPL plis from Leach P-1 4 Senic 5. localing chippent. WIN collect DARL Son 2Co my disposable ballens 30 At Leady- of to well sigle. PTP- 03.42 TO-35,15 1445 (offectof sodic L-P-1 was che lo collet 2-250 nl containers -Will some logit your voor vor The rest of the bottles PCB, Pest, 1825, metols, Diexin - Whob I on characteristics gyram (/vixosity + Huid

Location SA2-Phase	H3_	Date 11704	91.)
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07 75 Kmod on 340 Calibrate 103412000 to 90,01 +000 CC, is: 010 07990-25 07:40 Leaded eglipment into truck 5810-16Ft to Ept to pack the cooler - keld-yo by trois 0830 Headed to Ceach - PU-1 Ofoe: Scupled 135 M auber for and 125 ml 12/08/10 100 0915 Alleghed to souple 16 cuber, but the well dod not have enough Dodd or works, to others a July sarger Saples J. Kyda and N. McMuden placed back down in all and Hed offer round our today 10895 Hoold to Sonic-5 030: amind a sonit- 5 and began SUAM OF 10:45; Stapled Socie -5 11:00 lived 426 Sove-5 and Mary of back to C-P-1

97-18-0 219-02 \$ BMH TUP SvoyPCB/Rest/Hery. Sampled wASTE-B-2- Comp Thyles Evocy FCBI Prest/ Chests Metals Prosonic grouting bon NUS After & drums of ground, hole still at felling, shink it is core up into waster when from 7-18. Use bestonite this for rest of hole browned top 2: Personal - URS - Buth, Malissa Mare 1300 Prosonic decoring the rig 1300 Prosonic decoring the rig 1300 Setting por WASTE-Q-1 Reginin Set you past E-OD. ono At WASTE-Q-7. Olyo Saraled 5014-Q-7. D.S. Ja Alt all idely, such of Brast John a Method 146 Sampled Soll 0-7-05-pur der 000 Piokin successives per all a Metal ast Samuel MSTE -0-7-9 And proxin, Texp vac, Texp oran e successors representations at the no PID

7-26-00 Collect MASTE-Q-10-8-MS/MSD for TKLP VOK + TKLP Dioxin, 1035 Collect WASTE-Q-10-8-AP no voca droxin Collet WASTE-Q-10-Comp In Doc/RB/8es/Here a mital Cillent WASTE-Q-10-COMP-T for Fin shal born 6 221 TUP Broy PaBy Pest 1 He L/ Metal, "ellert nASTE-Q-10-COMP-T-MYWYD Collant at STE-Q-1-Comp 10 TUP STOCIACBIFESTIALV melas 1055 Collect WASTE- 2-10-Comp-pip - Seachers Rest/Hen G for Swelpers Rest/Hery + Metals, Prosoningrouting berehole, pagan Begin molbing back to Jale barn to decons to tall to part so 1400 1/30 Began decomply Frish doeon is, mob to Massin to southern site Q to set MASTE Q-1 44576-12-9 1225 Setti-, pon 1230 Be an dilling ha to stop H T/ set 1245 Collect SON-11-05 water on waste Con it disting metals, Svoyresprestners Sal-Q-5.0.5 for vocalexing (aller 5016-0-1-6 per use dieson, mells, svocfeco, lest, iers

26 July 2002 76 July 2002 12:35 Prosonie motaling well 2:45 trosunic cloring up mopro-pering to de mobo back to trailor for dean. Ext going to put locking CEACH: Q.3 13:35 Disense to linch. 1/150 CHZan, Rossan & 4RS bestron & not Parchete Will. For Alles at dan los Alo had 2 decon stop work with the Phoenix location and my com will do the remaining Cleans as arand 4 total of 1 EM CH - Q-Using respirators to della ane 15: 15 Down to 12' eucounter native meterra Holing of tuns & each bestron



Attachment 2

Field Notes Site S

Began anloading Sound drum piege & drum 1:d. 1 11D peaks, Begun backfolling 1st 20' section Higo I present trenching Dard Section, John R. soon as we encower dram Stg. Began @ Sw stake. 1350 At 25 from SW state encountered thum Hideep. At edge up trent, liquid

DIENTON | 6e+4.02 5 160 Calibrated egginement 100 -RAM COM-45 SO 10-0 1/2 LO 82-205 65000-60 CFL-50 B 70.9 Brown sith, olan or mounte 0730 lawin for Sito 5 Care-ing become s around it 0920 from State 10 its 2 of gestion enanterel rem drum - Gantall intert 1930 mobbine to next l'écation in Site + O EMA transporting 0835 Began setti p exclusion more OSS Begen Franching 84-5-4 continuing in Level C